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University of Southern Mississippi

Bulletin

GENERAL CATALOG ISSUE

UNDERGRADUATE PROGRAMS

ANNOUNCEMENTS

1974-1975

FALL QUARTER OPENS SEPTEMBER 9, 1974

Published quarterly by the University of Southern Mississippi,
Hattiesburg, Mississippi 39401
Entered as second-class matter February 19, 1917, at the post office
at Hattiesburg, Mississippi, under act of August 24, 1912.

VOLUME 61 (Published April 1, 1974) NUMBER 4

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CALENDAR

UNIVERSITY OF SOUTHERN MISSISSIPPI
GENERAL CALENDAR 1974-1975

FALL QUARTER—1974

Friday, August 23, 1974
Deadline for making application for admission

Wednesday, September 4
Faculty available for advisement

Thursday and Friday, September 5 and 6
Pre-quarter faculty meetings

Sunday, September 8
Dormitories open

Monday and Tuesday, September 9 and 10
Orientation for freshman and transfer students

Monday, September 9
Registration by appointment

Tuesday, September 10
Continuation of registration by appointment
Last day to register without late registration fee
6:30- 8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Wednesday, September 11
8:00 a.m. Day classes meet on schedule
1:00 p.m. Change of schedule and late registration begin
6:30- 8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, September 12
Thursday night classes will meet

Saturday, September 14
Tuesday class periods A-E meet

Wednesday, September 18
Last day for registering or adding full term Fall Quarter courses

Tuesday, October 8
Last day for dropping courses without academic penalty

Monday, October 21
Beginning of second term of Fall Quarter—only date for adding or registering for second term courses
Deadline for submitting applications to School of Nursing
Last day to file application for Winter Quarter degree completion

Friday, November 15
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, November 18, 19, 20
Fall Quarter Examinations (night classes will meet through Wednesday, November 20, 1974)

WINTER QUARTER—1974-1975

FIRST TERM

Tuesday, November 12, 1974
Deadline for making application for admission

Monday, December 2
Registration by appointment

Tuesday, December 3
Continuation of registration by appointment
Last day of registration without late fee
6:30- 8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Wednesday, December 4
8:00 a.m. Day classes meet on schedule
1:00 p.m. Change of schedule and late registration begin
6:30- 8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, December 5
Thursday night classes will meet

Wednesday, December 11
Last day for registering or adding full term Winter Quarter courses

Friday, December 20
5:00 p.m. Christmas holidays begin

Monday, January 6, 1975
8:00 a.m. Class work resumes (night classes meet)

Tuesday, January 14
Last day for dropping courses without academic penalty

SECOND TERM

Wednesday, January 22
Beginning of second term of Winter Quarter—only date for adding or registering for second term courses
Deadline for submitting applications to School of Nursing
Last day to file application for May graduation

Friday, February 21
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, February 24, 25, 26
Winter Quarter Examinations (night classes will meet through Wednesday, February 26, 1975)

SPRING QUARTER—1975

Tuesday, February 18, 1975
Deadline for making application for admission

Monday, March 10
Registration by appointment

Tuesday, March 11
Continuation of registration by appointment
Last day to register without late fee
6:30- 8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Wednesday, March 12
8:00 a.m. Day classes meet on schedule
1:00 p.m. Change of schedule and late registration begin
6:30- 8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only). Wednesday night classes will meet on one Friday night during the quarter at the convenience of the instructor and class.

Thursday, March 13
Thursday night classes meet

Saturday, March 15
Monday class periods 1-7 meet

Wednesday, March 19
Last day for registering or adding full term Spring Quarter courses

Thursday, March 27
10:00 p.m. Easter holidays begin (night classes will meet)

Sunday, March 30
University of Southern Mississippi Day

Monday, March 31
Monday night classes resume

Tuesday, April 1
8:00 a.m. Regular class work resumes

Thursday, April 10
Last day for dropping courses without academic penalty

Monday, April 21
Beginning of second term of Spring Quarter—only date for adding or registering for second term classes
Deadline for submitting applications to School of Nursing
Last day to file application for August graduation

Friday, May 16
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, May 19, 20, 21
Spring Quarter Examinations (Monday and Tuesday night classes will meet)

Wednesday, May 21
7:30 p.m. Graduation Exercises

SUMMER QUARTER—1975

Tuesday, May 13, 1975
Deadline for making application for admission

Monday, June 2
Orientation for freshman and transfer students
Registration by appointment

Tuesday, June 3
Continuation of registration by appointment
Only day to register for full quarter or first term courses without late fee

Wednesday, June 4
8:00 a.m. Day classes meet on schedule
1:00 p.m. Change of schedule and late registration begin
6:30- 8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, June 5
6:30- 8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Friday, June 6
Last day for registering or adding first term courses

Saturday, June 7
Tuesday class periods A-E meet

Wednesday, June 11
Last day for registering or adding full quarter courses
Last day for dropping first term courses

Friday, June 20
Last day for dropping full quarter courses without academic penalty
Deadline for making application for admission for the second term of the Summer Quarter

Monday, July 7
Registration for second term of Summer Quarter
Second term courses may be added without change of schedule fee
Deadline for submitting applications to School of Nursing
Last day to file application for Fall Quarter degree completion

Wednesday, July 9
Last day for registering or adding second term courses

Monday, July 14
Last day for dropping second term courses

Friday, August 8
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, August 11, 12, 13
Summer Quarter Examinations (night classes will not meet)

Wednesday, August 13
7:30 p.m. Graduation Exercises

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General Administration

Board of Trustees

Administrative Officers

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SIDNEY E.L. WEATHERFORD, JR., B.S., M.A., Ed.D. .....Director of Institutional Research
GENE DUANE SAUCIER, B.S., M.S. .....Dean of Admissions and Special Academic Services
JAMES GILBERT LANGDON, B.S., M.S., Ed.D. .....Registrar

English Language Institute

RICHARD TAYLOR DODDER, B.S. in B.A. ....Director of the English Language Institute

*FACULTY COMMITTEES, 1973-74

ACADEMIC COUNCIL: McCain, Moorman, Barnes, E. Bedenbaugh, Bourgeois, F. Brown, DuPuy, Fike, Frugé, Gibbs, Glick, Greene, Gunn, Harkins, Hartwig, Haynie, Ivy, B. Kalisch, P. Kalisch, Kenamond, Langdon, Mannoni, McCraw, Morrell, Musgrave, Oliver, Rayborn, Ryan, Schmidt, Sharp, Schoell, Switzer, Thames, L. Tuggle, van Aller, Welker, Winger, Yarbrough, three student members.

ADMISSIONS & CREDITS (Undergraduate): Saucier, J. B. Brechtel, Gibbs, A. Jordan, Fike, Grantham, Greene, Gunn, Harkins, Langdon, Mannoni, Moorman, Schmidt, Thames, one student member.

ADMISSIONS & CREDITS (Graduate): Saucier, Fike, Gibbs, Glick, Greene, Gunn, Langdon, Mannoni, Moorman, Schmidt, Thames, van Aller, one student member.

ATHLETICS: Milam, J. T. Davis, Langdon, L. Miller, Saucier, Schmidt, Smalling, Switzer, one student member.

AUDITORIUM: Moorman, Fike, Hartwig, Gen. Johnson, Mannoni, Skidmore, Smalling, J. A. Smith.

CALENDAR: Moorman, Durkee, Fike, Gibbs, Glick, Grantham, R. Green, Greene, Gunn, Harkins, Gen. Johnson, Langdon, Mannoni, McPhail, Pound, Saucier, Schmidt, Smalling, J. A. Smith, Thames, van Aller, two representatives from the Student Government Association.

COMMENCEMENT: Moorman, Chamberlin, Easterling, Fike, Gibbs, Glick, Greene, Gunn, Harkins, Hartwig, Irish, Gen. Johnson, Langdon, Mannoni, Ogletree, Schmidt, Smalling, Thames, van Aller, Wilber, the senators-at-large from the Senior Class.

EXTENSION AND PUBLIC SERVICE: Pound, Bain, Hamman, Hughes, Langdon, Larson, Merrifield, Moorman, H. Peddicord, Saucier, Stegenga, Tatalovich, van Aller.

FACULTY BENEFITS: Kelley, C. Brent, J. L. Davis, J. T. Davis, Gonzales, A. Gower, Hatcher, Jackson, Jaeger, Milam, Sharp, Welker, Wimberly.

FACULTY RESEARCH COUNCIL: Pound, Babin, Faulkinberry, Galbraith, B. Kalisch, Kazelskis, Mehearg, Sanchez, D. C. Williams, Winger, van Aller, Yarbrough.

FRATERNITIES & SORORITIES: Durkee, Benner, J. B. Brechtel, Conn, J. T. Davis, Munn, H. L. Rogers, Ross, Stout, the president of the Interfraternity Council, the president of the Panhellenic Council.

GRADUATE COUNCIL: van Aller, Anglin, Barnes, J. Donovan, Gottleber, Hamman, R. W. King, Lowe, H. Peddicord, Pound, Tracy.

HOUSING: Smalling, Grantham, Jaeger, Gen. Johnson, A. Jordan, H. Sullivan, two student members.

LIBRARY: W. Tracy, Alcorn, Balmat, Bourgeois, M. C. Brown, Fike, Gibbs, Gonzales, A. Gower, Greene, Gunn, Haley, Hartwig, Moorman, J. B. Mullins, Musgrave, Thames, van Aller, Wilber, three student members.

PUBLIC RELATIONS: Kirkpatrick, Cleveland, Galbraith, Gwin, Gen. Johnson, Mannoni, Ogletree, J. A. Smith, one student member.

REGISTRATION: Langdon, Chamberlin, Durkee, Fike, Glick, B. Green, Greene, Gunn, Irish, Jaeger, Moorman, Pound, Saucier, Schmidt, Smalling, J. A. Smith, Thames, van Aller, two student members.

RELIGIOUS ACTIVITIES: F. Wood, Bonner, J. T. Davis, Fish, Hales, Ogletree, C. Sullivan, van Aller, Wilber, the president of the Student Religious Federation.

STUDENT AID & SCHOLARSHIPS: Durkee, Conn, Grantham, Jaeger, Gen. Johnson, Langdon, Ogletree, Saucier, one student member.

STUDENT ACTIVITY COMMITTEE: Dunn, J. B. Brechtel, Grantham, A. Jordan, Post, Ross, the president of the Interfraternity Council, the president of the Panhellenic Council, the 1st and 2nd vice presidents of the Student Government Association, and the president of the Student Senate.

TEACHER EDUCATION COUNCIL: Gunn, Moorman, B. Davis, H. Peddicord, McPhail, College or School representatives, one student member.

TENURE: Burrus, Bahr, Easterling, Kenamond, R. B. King, Lok, Stegenga.

UNIVERSITY COUNCIL: McCain, Alcorn, H. G. Anderson, Anglin, Bahr, J. H. Bedenbaugh, Benjamin, Bonner, M. C. Brown, Brundage, Burrus, Busbee, Carr, Carter, Caveny, Chamberlin, Dale, Daniels, B. J. Davis, Durkee, Easterling, Faulkinberry, Fike, Foltz, Fruge', Gibbs, Glick, Gonzales, A. Gower, W. Gower, B. Grantham, R. Green, Greene, Gunn, Gwin, Hamman, Harkins, Hartwig, Hatcher, Hughes, Hunter, Irby, Irish, M. C. Johnson, Gen. Johnson, R. Johnson, Jr., Kalisch, Kelley, Kenamond, Kirkpatrick, Langdon, Larson, Lok, Mannoni, McCarthy, McPhail, Mehearg, Moorman, J. Morgan, Musgrave, Nau, Ogletree, Orange, Paulson, R. Pearson, P. Peddicord, Plue, Poirier, Pound, P. Prenshaw, B. Quarnstrom, Rhodes, W. M. Roberts, Saucier, Schmidt, Sharp, W. Sirmon, J. R. Skates, Smalling, South, Stegenga, Stocks, Thames, W. Tracy, van Aller, Vreeland, Walker, Welker, Wilber, Wildman, Wimberly, the president of the Student Government Association, the president of the Student Senate.

UNIVERSITY UNION: Durkee, Busbee, Dunn, Grantham, Hartwig, A. Jordan, Ogletree, the president of the Interfraternity Council, the president of the Panhellenic Council, the 1st and 2nd vice presidents of the Student Government Association.

UNIVERSITY HONORS COUNCIL: Hatcher, Bain, C. Brent, M. C. Brown, S. Carpenter, Clements, Dunigan, Easterling, Fike, Gonzales, A. Gower, Gunn, R. Johnson, Jr., Kay, McCarthy, Milner, Pessoney, Quarnstrom, Schmidt, one student representative from each Honors class.

UNIVERSITY & COLLEGE PRESS COMMITTEE: Gonzales, Hatcher, J. A. Smith.

*The President of the University is ex-officio member of all committees. The person named first on each committee is chairman of the committee.

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GENERAL INFORMATION

Historical

The University of Southern Mississippi was established by an act of the Legislature approved on March 30, 1910, by Governor Edmund F. Noel. Its first name was the Mississippi Normal College. Its original purpose was to train teachers for the rural schools of Mississippi.

The act of March 30, 1910, did not provide any state money for the building of Mississippi Normal College, but did provide that localities in the state might bid for its location by offering land for a site and money for constructing buildings. On September 16, 1910, the Board of Trustees accepted the bid of Hattiesburg and Forrest County to supply $250,000.00 and a free site. That site was west of the city in cut-over timberland with great pine stumps everywhere. Contracts were let to clear the land and to build buildings.

The five permanent buildings (College Hall, Forrest County Hall, Hattiesburg Hall, the Industrial Cottage [now the Honor House], and the President's Home), a temporary wooden Dining Hall, and other necessary improvements were barely finished when the Mississippi Normal College opened on the rainy morning of September 18, 1912, with a president, a faculty of eighteen, and a student body of 220.

On October 17, 1911, Joseph Anderson Cook, Superintendent of Schools, Columbus, Mississippi, was elected president. The University of Southern Mississippi has had only five presidents during the sixty years since its founding. The Board of Trustees elected Claude Bennett president effective October 10, 1928. On April 23, 1933, the Board of Trustees elected Dr. Jennings Burton George as the third president, effective July 1, 1933. On June 13, 1945, the Board of Trustees elected Dr. Robert Cecil Cook as the fourth president and he officially assumed office on July 1, 1945. On October 21, 1954, President Cook submitted his resignation. He served until December 31, 1954, and Dr. Richard Aubrey McLemore became acting president on January 1, 1955. The Board of Trustees, on May 19, 1955, elected Dr. William David McCain as the fifth president. He officially assumed office on August 1, 1955.

As has been stated, the University of Southern Mississippi was founded on March 30, 1910, as the Mississippi Normal College. On March 7, 1924, the Legislature changed the name to State Teachers College. On February 8, 1940, the Legislature changed the name to Mississippi Southern College, and on February 27, 1962, the Legislature changed the name to the University of Southern Mississippi.

The Mississippi Normal College did not grant degrees in its early years, but awarded certificates for the completion of certain specified courses of study. On April 8, 1922, the Legislature authorized the awarding of the Bachelor of Science degree. The Bachelor of Music degree was authorized by the Board of Trustees on June 19, 1934. The first Bachelor of Arts degree was awarded on August 20, 1940. On May 26, 1947, the Board of Trustees of State Institutions of Higher Learning authorized the initiation of graduate work and the awarding of the Master of Arts. Doctoral programs were first authorized by the Board of Trustees on May 20, 1959. Numerous other degree programs have been authorized during the past twenty years.

The administrative and academic organization of the University of Southern Mississippi is basic and relatively simply. This reorganization took place in 1957. The Dean of the University is responsible for the academic program. The Dean of Students is responsible for student affairs. The Financial Secretary is responsible for financial affairs and operations. The Director of Intercollegiate Athletics is responsible for the athletic program. The academic area of the University of Southern Mississippi is organized into the College of Education and Psychol-

ogy, the College of Liberal Arts, the College of Science and Technology, the School of Business Administration, the School of Fine Arts, the School of Home Economics, the School of Health, Physical Education, and Recreation, the School of Nursing, the Graduate School, the School of Social Work, and the Division of Extension and Public Service.

There has been a great increase in enrollment since the end of World War II. There were 303 students here in September, 1945, and 8900 in September, 1973.

The number of graduates is some measure of the growth of a university. The University of Southern Mississippi has awarded 31,941 degrees since the first one was conferred in 1922.

There has been great improvement in the faculty during the past fifty-eight years. In 1912 only one member of the faculty had a master's degree. During the 1973-1974 session, the University employed on all its campuses 454 full-time and 61 part-time faculty members, a number of the latter being teaching administrators. The doctoral degree was held by 279 full-time faculty members and by 39 part-time faculty members.

Research has been strengthened at the University of Southern Mississippi in several ways: the number of doctoral degrees has been increased; the University has established its own scholarly journals—*The Southern Quarterly* and *The Southern Journal of Educational Research;* the Computer Center has been equipped to expedite contracts and faculty research; the office of Research and Projects has been established by the University to promote research and to assist faculty members in their research activities; and the University of Southern Mississippi is a participating member of the University and College Press of Mississippi established on May 1, 1970. For further information on the University's research program, see the **Graduate Bulletin.**

The University of Southern Mississippi was established by the State of Mississippi, is owned by the State of Mississippi, and is operated and financed by the State of Mississippi. Its first Board of Trustees was established by the legislative act of March 30, 1910, and that board governed only this one institution. On February 2, 1932, the Legislature established the Board of Trustees of State Institutions of Higher Learning and placed under its jurisdiction the five colleges and one university owned and operated by the state. On November 3, 1942, the people of the state voted to make the Board of Trustees of State Institutions of Higher Learning a constitutional board for all colleges and universities of the state. The University of Southern Mississippi is now operated under the jurisdiction of that constitutional board.

Beginning the Fall Quarter, 1972, credit was awarded in terms of semester rather than the traditional quarter hours although the University continues to operate on a quarter calender, thus regularizing the credit system throughout the state's university system.

PURPOSES OF THE UNIVERSITY

The University of Southern Mississippi believes that its fundamental mission is to fulfill the educational needs of the people in its changing state and region. To meet these needs the University is a dynamic, multipurpose, career-oriented institution, committed to excellence in its programs and services. As such, the University sees its purpose as threefold: teaching, research, and service. The broad area of teaching is the primary purpose of the University of Southern Mississippi. While research is important, its role is that of serving, supporting, and complementing teaching. Through service, the University seeks to incorporate the resources of knowledge, skills, and artistry into the mainstream of the society it serves.

In the design of its programs and in its operations, the University is committed to those policies and practices which are consistent with and supportive of these purposes.

ADMISSION REQUIREMENTS AND PROCEDURES

ALL COMMUNICATIONS regarding entrance to the undergraduate colleges and schools of the University should be addressed to the Dean of Admissions, University of Southern Mississippi, Southern Station, Box 11, Hattiesburg, Miss. 39401.

Eligibility for admission cannot be determined until the application, ACT score, and scholastic records have been submitted. These items should be received before the deadline date of the quarter for which the student is applying (see Calendar). The academic record, character, and conditions of application of the applicant must be in accordance with the rules and regulations of the Board of Trustees of State Institutions of Higher Learning and with the laws of the State of Mississippi. The applicant must have excellent moral character and must be willing to conduct his or her affairs so as to be a credit to the University. The University reserves the right to cancel the admission or registration of an individual whose attendance at the University, in the opinion of the appropriate administrative officer and the President, would not be mutually beneficial to himself and to the institution. Applicants should note carefully the law governing legal residence and the penalty for falsifying residence information. The law appears in the STUDENT EXPENSES Section of this **Bulletin. The University of Southern Mississippi does not discriminate on grounds of sex, race, color, religion, or national origin.**

APPLICATION PROCEDURES FOR FRESHMEN

HOW TO APPLY

Each freshman applicant is required to:

1. Present an application for admission.
2. Have ACT scores sent to the Dean of Admissions. The applicant should have a composite standard score of fifteen (15). Any exceptions must be approved by the Dean of Admissions.
3. Request that his high school send an official transcript of his record to the Dean of Admissions.

When the application, transcript, and ACT results have been received, the Office of Admissions will send to the applicant notice of eligibility or ineligibility for admission. When the student applies early in his senior year, a notice of eligibility is issued as soon as processing is completed. This preliminary notice is all that the student needs for **planning** purposes, subject only to completion of his high school program.

WHEN TO APPLY

A high school student, especially one who also is applying for financial aid, is urged to apply for admission and financial aid early in his senior year. The applicant should have his high school mail to the Dean of Admissions a transcript complete for his first six semesters. A student who applies during his final senior semester should provide a transcript complete for the first seven semesters. The deadline for receipt of applications and all required credentials, including results of the American College Test, is twenty (20) days in advance of the session for which the application is being made. An application is processed as soon as possible after all required items are available. A notification of admission is then issued to the admissable student.

EARLY ADMISSION

The University will admit a limited number of highly qualified applicants after completion of the junior year of high school. To be considered for early admission, the applicant must have achieved an exceptional record on a minimum of fifteen (15) units in an accredited

high school, have the unqualified recommendation of his principal or headmaster, and have achieved a score of twenty-three (23) on the American College Test. A personal interview with the Dean of Admissions is required before a decision is made.

ADMISSION BY EXAMINATION

A student **twenty years of age or older** who has not been graduated from high school may be admitted if he achieves a standard score average of fifty (50) or above on the high-school-level General Educational Development Tests and meets all other University requirements.

TRANSFER STUDENTS

HOW TO APPLY

Each new student who has attended other colleges or universities and who is seeking admission to an undergraduate college or school is required to file with the Office of Admissions an application for admission (form to be obtained from that office). He should also request the authorities at each institution attended to send an official transcript of his record to the Dean of Admissions. The student who is applying with fewer than forty-two (42) semester hours of college credit acceptable by this University must also have sent to the Dean of Admissions his official scores on the American College Tests. No application will be processed until all required items, including the ACT where applicable, are on file. Any exceptions must be approved by the Dean of Admissions.

A student currently enrolled in another institution at the time he makes application and applying for admission for the following session to one of the undergraduate colleges or schools of this University should arrange to have forwarded to the Dean of Admissions an official transcript which includes a listing of courses in progress as well as all completed work. On the basis of these partial credentials, a determination of admission status will be made pending receipt of the final transcript, thus enabling the student to make definite his plans for transfer. Transfer credit is accepted only from the institutions of higher learning which are accredited by a regional accrediting agency or the Mississippi Association of Colleges. Students entering from non-accredited institutions will be accepted as guest students for one quarter (12 hours); at the end of that quarter their status will be determined on the basis of their performance at the University of Southern Mississippi.

The student must indicate on the application all previous college attendance. An applicant is not permitted to ignore previous college attendance or enrollment. A student found guilty of non-disclosure or misrepresentation in filling out the admission application form, or a student who finds after admission or enrollment that he is ineligible for academic or any other reason to return to his last institution and who fails to report this immediately to the Admissions Office, will be subject to disciplinary action, including possible dismissal from the University.

WHEN TO APPLY

The application, required credentials, and ACT results (when applicable) must be on file in the Admissions Office not less than twenty (20) days in advance of the session for which application is being made.

ADMISSION PROCEDURE

When the application, all required credentials, and the ACT results (if applicable) have been received, the Office of Admissions will send to the applicant a notice of eligibility, or ineligibility, for admission.

An evaluation of the transferred credit will be completed as soon as possible after the admission has been determined. If the student receives his evaluation prior to registration, he should retain it for use during

advisement. If he does not receive his evaluation prior to registration, he should contact the Admission Office as soon as possible after his arrival on campus.

REGULATIONS

The minimum qualitative requirement for University admission is a grade average of C in all previous college work. The applications of students whose records do not meet the indicated requirements may be subject to review by the Committee on Admissions and Credits.

A student under academic suspension from another college or university may not enter the University of Southern Mississippi during the term of his suspension. Upon termination of the suspension period there is no bar to admission, if he is eligible in other ways.

In general, students under disciplinary suspension are not admitted to the University of Southern Mississippi.

Students from fully accredited institutions ordinarily will be given full credit for work transferred into the University, insofar as the courses taken are the same as, or equivalent to, courses offered in the college in which the student enrolls in this institution.

Credits transferred from an accredited junior college will be accepted as determined by the college or school in which the student is enrolled. In accepting junior college credits, no courses will be considered as above sophomore level. Credit earned in institutions which have not been fully accredited is usually accepted on the same basis as by the state university of the state in which the institution is situated. When acceptance of credit on a validation basis is indicated, the student will be required to validate such credit by at least a 2.0 index on his first 15 semester hours of residency study here. Where it seems proper, examinations for the validation of credit may be required.

LIMITATION OF TRANSFER OF CREDITS

Not more than sixty-six (66) semester hours or ninety-nine (99) quarter hours may be transferred from a junior college. If a transfer student has earned a total sixty-six (66) semester hours in combined junior and senior college or other credits, no additional credit will be accepted from a junior college. No former students of the University of Southern Mississippi will be allowed to transfer credits earned at a junior college once they have earned a total of sixty-six (66) semester hours from all sources. In the 128-semester-hour minimum requirement for a baccalaureate degree, at least sixty-four (64) hours must be earned in a senior college.

A maximum of sixty-four (64) semester hours of credit earned through Credit by Examination, independent study courses, extension courses, and educational experiences in the armed forces combined may be counted toward a degree at the University of Southern Mississippi. No more than thirty-two (32) semester hours earned by independent study and/or extension may be used. No more than thirty-six (36) semester hours in a degree program may be earned through Credit by Examination.

Credit will not be granted for college courses carried at another institution of college level, when a student is enrolled for residence credit in this University, except upon prior written approval of the dean of the college or university in which the student is enrolled.

LIMITATION ON ACCEPTANCE OF MILITARY CREDIT

1. No credit is awarded for the General Educational Development Tests, College Level.
2. Credit for educational experiences in the armed forces may be awarded on the basis of recommendations of the American Council on Education.

3. A maximum of sixty-four (64) hours from military schools may be used toward a degree, provided the student has no correspondence or extension courses.

4. Correspondence and/or extension courses, including USAFI college level courses, may be applied toward a degree up to a maximum of thirty-two (32) semester hours. No more than nine (9) semester hours of correspondence (USAFI) work may be earned in any one field.

ACCEPTANCE OF MILITARY CREDIT

1. The General Educational Development Tests at the High School Level are accepted in lieu of a high school diploma.

2. Credit for military schools and educational experiences in the armed forces is awarded on the basis of recommendations of the American Council on Education.

3. All USAFI courses are accepted within limitations above, as well as those from the College Level Examination Program.

4. Credit from The Community College of the Air Force is accepted toward a degree.

5. A maximum of sixty-four (64) semester hours of credit earned by independent study, extension, and military experience combined may be applied toward a degree.

REQUIREMENTS FOR MILITARY PERSONNEL:

THE "BOOTSTRAP" PROGRAM

Military personnel on active duty who attend the University on the "Bootstrap" Program may complete degree requirements with thirty (30) semester hours of work on the Hattiesburg campus, provided all other degree requirements have been fulfilled. This amount of work may be done in two quarters (six calendar months), but many students attend for nine months or longer. Graduate students will, of course, have to attend for at least nine months since they may transfer only six (6) semester hours from another institution.

In order to receive an official evaluation of credits to determine eligibility for "Bootstrap" attendance, the following educational credentials must be forwarded:

1. A properly executed military Form DD 295.

2. Official transcripts bearing the raised seal from each institution where credit has been earned.

3. Official transcripts and CLEP scores for courses completed through the United States Armed Forces Institute, Madison, Wisconsin.

4. Official high school transcript.

5. An application for admission should be submitted with the request for an evaluation.

All documents and correspondence should be directed to:

The Coordinator of Armed Forces Education
University of Southern Mississippi
Southern Station, Box 11
Hattiesburg, Mississippi 39401

REQUIREMENTS FOR FOREIGN STUDENTS:

REGULAR UNIVERSITY PROGRAMS

1. Foreign students without previous records at high schools, colleges, or universities within the United States must meet the requirements outlined above for admission as freshmen with the exception of the American College Test requirement.

2. All applicants who are not citizens of an English-speaking country must furnish the Office of Admissions with a satisfactory score on the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required. Because it normally requires several months to proc-

ess all necessary documents, foreign students should submit the application, official certificates, and detailed transcripts of record as soon as possible. Doing so will allow time for exchange of necessary correspondence and, if the applicant is admitted, will help him in obtaining the necessary passport visa in sufficient time.

3. Foreign students who have already attended colleges or universities within the United States must meet the requirements outlined above for admissions as transfer students. The Test of English as a Foreign Language (TOEFL) may be waived if the transfer student has successfully completed all freshman English requirements with an average of 2.0 or better.

4. A ten dollar ($10.00), non-refundable fee must accompany the application for admission of each foreign student.

5. All foreign students should direct documents and correspondence to:

Foreign Student Admissions
University of Southern Mississippi
Southern Station, Box 5151
Hattiesburg, Mississippi, U.S.A. 39401

ORIENTATION AND ADVISEMENT

At the beginning of each quarter, a required orientation program is provided for all new undergraduate students. The orientation programs are designed to acquaint students with the administrative officers of the University, the rules and regulations, the physical plant, and the registration procedure. The Certificate of Admission, which is issued by the Dean of Admissions and Special Academic Services, provides reporting instructions for the first orientation activity. All new students are expected to be prompt in reporting as directed on the Certificate of Admission.

All new students are assigned to academic advisers and are given specific times to meet with their advisers for assistance in scheduling classes and planning programs of study to meet their individual needs. Assignment of advisers is based on the student's stated educational or career plans. Those students who have not established definite educational or career plans are assigned to counselors in the Office of Advisement. The Office of Advisement provides a continuing program of academic and career counseling for all students and prospective students of the University.

THE ENGLISH LANGUAGE INSTITUTE

Students interested in attending the English Language Institute at the University of Southern Mississippi for intensified studies in English should direct all correspondence to:

The Director of the English Language Institute
University of Southern Mississippi
Southern Station, Box 65
Hattiesburg, Mississippi 39401

INDEPENDENT STUDY COURSES, RESIDENT AND EXTENSION CENTERS

Students interested in enrolling in independent study courses or courses at resident and extension centers should write to:

The Dean of the Division of Extension and Public Service
University of Southern Mississippi
Southern Station, Box 55
Hattiesburg, Mississippi 39401

STUDENT COUNSELING

The purpose of the Student Counseling Center is to assist each individual in deriving maximum benefit from his University experience and developing his full range of potentialities. The following professional counseling services are provided: vocational, educational, personal, and marital.

Students interested in choosing a major, exploring career choice, dealing with some aspects of personal or social development should feel free to contact the Center for an appointment. Everything that is said during a counseling interview is regarded as confidential. No information is released to any individual except with the approval of the student.

When appropriate, the student and the counselor may select tests to appraise abilities, interests, or personality characteristics. A library of educational and occupational information is maintained. College catalogs from other institutions and many books and pamphlets on educational and personal adjustment are also available.

Besides assisting students on an individual basis, the Center provides group study skills training to enable students to handle their academic pursuits better. How to organize study time, how to take notes, and how to take examinations are a few of the topics covered.

The Center provides growth group experiences for students. Primary goals of these experiences are developing the student's ability to communicate and enhancing his skills in interpersonal relationships. The goal, therefore, is to provide students a chance to obtain insight into their own behavior and the behavior of others in the context of a group experience.

The Center staff is available to work with campus groups in providing leadership or communication training. The primary goals of these groups are to improve leadership abilities and to enhance the communication function in organized group activity.

The Center is located in Room 200, Student Services Building. It is open from 8:00 A.M. to 5:00 P.M., Monday through Friday. Any person who is enrolled or expects to enroll as a student may use the services without charge. Spouses of students often use the Center. In order to make an appointment, a student may come by the Center or call 266-7119 or write to:

Director of Student Counseling
University of Southern Mississippi
Southern Station, Box 75
Hattiesburg, Mississippi 39401.

OFFICE OF VETERANS AFFAIRS

The Office of Veterans Affairs is responsible for providing assistance to veterans and dependents of eligible veterans that will enable them to derive the minimum benefit from their veterans educational entitlement. Specific activities of this office include recruitment, outreach, counseling, tutorial assistance, basic education, and it sponsors the campus veterans organization.

OFFICE OF SPECIAL SERVICES

The Office of Special Services is responsible for providing educational assistance to students who are educationally and economically disadvantaged. This office is administering developmental programs to enhance these students' chances of deriving maximum benefit from their college experience. Specific services include counseling, tutoring, study skills, growth group activities, and the coordination of developmental education programs in English, mathematics, and reading.

THE STUDENT COMMUNITY
CAMPUS LIFE AND ACTIVITIES

STUDENT HOUSING

Resident Housing

Three thousand two hundred and sixty-three (3,263) spaces in air-conditioned residence halls and five hundred and forty nine (549) spaces in non-air-conditioned residence halls are available for students in thirteen (13) residence halls operated by the University. These include three residence halls which incorporate their own dining facilities (Hillcrest for women, Elam Arms for men, and Vann Hall for men on athletic scholarships). Elam Arms and Hillcrest have heated swimming pools. Bolton, Jones, Pulley, Roberts, and Wilber are the other air-conditioned residence hall for women. Scott and Bond are the other air-conditioned residence halls for men. Hattiesburg, Hickman, and Mississippi are the air-cooled residence halls for women.

When students occupy rooms in a residence hall, they obligate themselves to pay for one quarter's room rent for that hall. Refunds for unused portions of room rent will be made only in case of withdrawal from the University. Residence hall fees are subject to change without notice. It is the responsibility of the student to determine the amount of fees for the residence hall to which he is assigned.

Each resident will be asked to contribute to the Residence Hall Fund which is used to maintain a TV, to pay for Homecoming decorations, courtesies, and other residence hall-sponsored activities.

All regularly enrolled undergraduate students under 21 years of age are required to live in one of the residence halls, unless they are married or live with parents or legal guardian.

Students found to be residing off campus in violation of the on-campus policy may be charged a full quarter's room rent regardless of the time during the quarter they are found to be in violation of the policy.

Assignments

Assignments of students to residence halls will be made when a student has been admitted to the University, and after the $15.00 deposit with an application for housing has been received by the Housing Office. Assignment of enrolled and former students will be made at the end of each quarter for the succeeding quarter. Roommate preference may be indicated on the application form, and, when possible, these preferences will be granted. However, the application is for accommodations in the residence halls and *not* for a specific roommate. Priority of residence hall assignments goes to enrolled and former students.

New students (freshman and transfer) will be assigned as applications are received and in order of date received.

Application should be made not later than 30 days prior to the first day of registration. Room assignments are made for new students upon arrival at the assigned residence hall at the beginning of the quarter. All residence halls will be open on the same day. New students must claim their room by 5:00 P.M. on the day the residence halls open. Rooms will be held for former students until 5:00 P.M. of the first day of registration.

Sorority members are expected to live in Wilber Hall, the Panhellenic Hall. Lodging in a fraternity house is available to the fraternity members and pledges. Arrangements are made directly with the fraternity.

Changes between residence halls are not permitted after the day before registration. However, room changes may be made within the residence hall to which a student is assigned, *provided* the change has

been *approved* by the Housing Staff member of that residence hall and officially arranged in the Housing Office *before* the change is made.

THE UNIVERSITY RESERVES THE RIGHT TO ENTER ROOMS FOR INSPECTION AND MAINTENANCE.

Residence hall room assignments are mailed at least 15 days prior to the first day of registration for the quarter applied for. Those applying after the beginning of this fifteen-day period will receive a room assignment by mail if possible. If it is too late to mail the assignment, it may be secured at the Housing Office on the day the residence halls open.

Cancellations

Any person cancelling his reservation 15 days prior to the first day of registration will be refunded the $15.00 deposit. Those failing to cancel prior to the 15 days will forfeit the deposit. Cancellations must be made in writing.

Any person failing to claim his room by the time indicated above will forfeit the deposit.

All checks or money orders for housing deposits should be made out to the University of Southern Mississippi and mailed to:

The Director of Housing
University of Southern Mississippi
Southern Station, Box 64
Hattiesburg, Mississippi 39401

Other information concerning housing is available in the Housing Handbook.

Family Housing

Pine Haven Apartments, consisting of two hundred and ninety-six (296) one-two-and three-bedroom unfurnished units, are available on the campus for married students. A long waiting list exists each quarter. An applicant's position on the list is determined by the date of receipt of the application and deposit.

A quarterly housing fee is payable at the beginning of the quarter. The rent is due and payable at registration. A student obligates himself to the full fee for one quarter's rent when he moves in, unless he withdraws from the University. A deposit of $15.00 is required at the time of application and is refundable if the request is cancelled thirty (30) days prior to the date for which the application is made.

Applications and brochures may be secured at the Pine Haven Office, or by writing to the Director of Housing.

FOOD SERVICE

All persons living in residence halls are expected to purchase a meal ticket for one of the food service facilities on campus. The University Commons serves well-planned, attractive meals. Special diets may be arranged at a small extra charge. Meal tickets for the Commons are available to all students in all residence halls except Hillcrest and Elam Arms. Residents of those two residence halls must purchase meal tickets for these dining halls. The meal ticket pays for meals beginning on the actual day of registration and continuing until the end of the quarter. No supper meal is served on Sunday evening. The students pay cash for meals during the period of orientation and prior to the actual day of registration.

HEALTH AND SAFETY SERVICES

The University Clinic is a well-equipped infirmary in which the ordinary illnesses occurring during the University year, but not during the vacation or recess periods, are cared for by the University physicians and nurses. Students with more serious illnesses or injuries, or

those in need of immediate surgery, are referred to the regular hospitals in Hattiesburg. Such serious illnesses, injuries, and operations, together with hospital and medical care in private hospitals, can not be the responsibility of the University. The Clinic services are available only to full-time students.

Services at no cost to the students include consultations with the physicians at the Clinic, nursing services, domiciliary care, and medical examinations for teaching certificates, as well as many incidental health services related to Student Health.

An apothecary service supplies drugs at cost to students, both in-patients and out-patients. It is under the direction of a registered pharmacist.

The clinical laboratory is directed by a registered laboratory technician. A wide range of laboratory tests ordered by physicians are at cost to students.

X-ray services are available through the Forrest General Hospital.

During the regular school quarter the Clinic is open 24 hours a day, seven days a week.

AUTOMOBILES ON CAMPUS

Students and employees of the University are required to register their automobiles with the Department of Campus Security. Temporary permits are issued when the automobile is to be on the campus less than fourteen days. Parking zones have been established along with other regulations. A brochure which outlines traffic and parking regulations may be secured from the Department of Campus Security. Penalties are assessed for violation of regulations and persistent violators may be denied the privilege of operating an automobile on campus. Proof of financial responsibility (minimum insurance) is required to register your automobile.

Vehicle registration fees are per following schedule:

Automobiles—	beginning Fall Quarter to 31 August	$5.00
	beginning Winter Quarter to 31 August	4.00
	beginning Spring Quarter to 31 August	3.00
	beginning Summer Quarter to 31 August	2.00
Motorcycles—	beginning Fall Quarter to 31 August	2.00
	beginning Spring Quarter to 31 August	1.00
Bicycles—	from registration to 31 August	1.00

STUDENT ACTIVITIES

The typical vehicle of the extra curricular activities at the University of Southern Mississippi is the multitude of student organizations and activities.

Some one hundred twenty student organizations, of almost as many purposes and objectives, grace the Southern scene. These organizations include all categories of participation: service, social, religious, professional, honorary, activity, on and on to provide an opportunity for almost any interested student to participate.

While these activities are outside of or "extra to" the formal curricula they are unquestionably a part of the student's total experience while he is enrolled at the University of Southern Mississippi.

In addition to the numerous student organizations, there are three groups which, by their representative function, serve the entire student body in their various capacities and areas. These groups are: Student Government Association, University Activities Council, and Student Religious Federation.

While these bodies are deliberative and purpose to represent the views and wishes of the entire student body, other student governing groups may be found in the residence halls, the fraternity and sorority system, and the international student community.

STUDENT GOVERNMENT

The functions of the Student Government Association, composed of all registered resident students at the University of Southern Mississippi, are "to insure a continuous exchange of ideas and opinions between the students and the administration, to secure valuable training and experience in democratic self-government, to assume the fullest powers and responsibilities of self-government consistent with the constitution and laws of the State of Mississippi and the policies of the president of this institution, to promote the general student welfare, and to protect the herein enumerated rights of students."

There are three branches of student government: the legislative, the executive, and the judicial. The executive officers and the members of the legislative branch, the Student Senate, are elected by direct vote of the students. The justices of the Student Court are appointed by the President of Student Government subject to approval by the Student Senate.

The Student Government Association operates student service-oriented programs that serve to make the student's life at Southern more convenient. Four primary programs which are relatively new are the refrigerator rental program, student loan program, Employment Service and tutoring.

Students have a very definite hand in the overall operation of the University through the Student Government Association as students are represented on all standing University committees. This representation, coupled with numerous Student Senate Committees and boards, brings the student leaders to grips with University administrative problems and allows them to share in solutions and decision making.

The local government unit in each dormitory is called the Dormitory Council. These councils are coordinated by the Associated Men Students and Associated Women Students and regulate all matters relating to dormitory life.

STUDENT PUBLICATIONS

THE STUDENT PRINTZ, winner of many national awards, is the University newspaper published semi-weekly by a staff of students under the direction of faculty advisers. THE SOUTHERNER is a yearly publication, published by a student staff under the direction of a faculty adviser. CONTEMPORARY, issued yearly and sponsored by Lambda Iota Tau, represents the best of student endeavor in short stories, essays, and poetry. The DRAWL, a handbook for students, is published by the Student Government Association. The UNIVERSITY DIRECTORY, published by the University Union, a student staff, and an adviser, gives a complete list of telephone numbers and mail addresses of students, faculty, and staff of the University.

RELIGIOUS LIFE

The University of Southern Mississippi is a state supported school and is entirely non-sectarian. Religious life is encouraged, and every effort is made to cooperate with local churches. The Student Religious Federation unifies the activities of all religious groups on the campus.

It is composed of students from the entire University community and seeks to provide channels for worship and religious development. Religious Emphasis Day, services before Thanksgiving, Christmas, and Easter, films, forums, and debates are some of its sponsored activities.

Religious Organizations—Association of Baptist Students, Baptist Student Union, Chi Alpha Delta XI, Christian Science, Episcopal Students, Fellowship of Christian Athletes, Hillel, Inter-Varsity Christian Fellowship, Koinonia-Church of Christ, Latter Day Saints, Lutheran Fellowship, Maranatha, Newman Club-Roman Catholic, Student Religious Federation, Wesley-Methodist, Westminster-Presbyterian.

The office of the University Chaplain and Coordinator of Religious

Affairs works with all campus religious groups in helping them to effect their ministeries. A dormitory ministry, non-credit courses, program speakers, and resources are samples of its ministry.

Danforth Chapel is a place of prayer and meditation for all and is often used for worship services and weddings.

ORGANIZATIONS

General Honor Societies—There are five general honor societies on the campus. A general honor society is an association that receives into membership individuals who have achieved high scholarship and who fulfill such additional requirements of distinction in some broad field of education and culture or in general leadership as the society has established. Phi Kappa Phi is a national honor society composed of men and women who have achieved superior scholarships. Membership in Phi Kappa Phi is the highest recognition for scholarship accorded by the University. Omicron Delta Kappa is a national honorary leadership society, membership in which is the highest recognition accorded men students of the University. Phi Delta Rho is a local honorary leadership society, membership in which is the highest recognition accorded women students of the University. Alpha Lambda Delta, for women, and Phi Eta Sigma, for men, are national honor societies which aim to encourage and reward high scholastic attainment among freshman students.

Academic Honor Societies—Alpha Epsilon Alpha (accounting), Alpha Epsilon Delta (medicine), Alpha Phi Omega (service), Alpha Psi Omega (dramatics), American Chemical Society Student Affiliate, Beta Beta Beta (biology), Delta Sigma Pi (business), CWENS (sophomore women), Gamma Beta Phi, Home Economics Club, Iota Beta Sigma, Kappa Delta Pi (education), Kappa Kappa Psi (band), Kappa Mu Epsilon (mathematics), Kappa Omicron Phi (home economics), Lambda Iota Tau (literary), Mu Phi Epsilon (music), Omicron Delta Epsilon (economics), Pershing Rifles Honor Society, Phi Alpha Theta (history), Phi Beta Lambda, Phi Delta Kappa (education), Phi Mu Alpha Sinfonia (music), Phi Chi Theta (women-business), Pi Delta Phi (French), Pi Gamma Mu (social science), Pi Kappa Delta (forensics), Pi Omega Pi (business education), Pi Sigma Epsilon (marketing), Pi Tau Chi (religion), Psi Chi (psychology), Scabbard and Blade Society (military), Sigma Alpha Eta (speech therapy), Sigma Delta Pi (Spanish), Society of Advancement of Management, Tau Beta Sigma (band).

Religious Organizations—See page 27.

Service Organizations—Botegha, Business Fraternity Council, Circle K Club, Collegiate Civinettes, Interfraternity Council, Junior Panhellenic Council, Le Cercle Francais, Little Sisters of Minerva, M Club, Panhellenic Council, Pen and Sword, Rho Epsilon, Rho Eta Sigma, Yellowjackets.

Other Organizations—Afro-American Cultural Society, American Independent Youth, Geographical Society of USM, Geology Club, HPER Club, Industrial Education Club, School of Business Administration Graduate Club, Sociology Club, Southern Gymnastic Club, Southern Journalism Society, Student National Education Club, Student Nurses Organization, United Party, University Activities Council, USM Pre-Law Club, USM Spirit Club.

Social Fraternities—Eight social fraternities hold membership in the Interfraternity Council of the University. They are Alpha Tau Omega, Kappa Alpha, Kappa Sigma, Pi Kappa Alpha, Phi Kappa Tau, Sigma Alpha Epsilon, Sigma Nu, and Sigma Phi Epsilon.

Social Sororities—Nine social sororities hold membership in the Panhellenic Council of the University. They are Alpha Sigma Alpha, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Zeta, Kappa Delta, Phi Mu, Pi Beta Phi, and Sigma Sigma Sigma.

Dramatic, Musical, and Other Performing Groups—The University's preeminence in the fine arts fields of theatre and music is reflected in the prominent role of student performing groups. The Debate Squad and the University's own radio station also encourage student performance.

THE UNIVERSITY THEATRE, open to all students of the University, is the campus dramatic organization sponsored by the Department of Theatre Arts.

THE CHORAL UNION, composed of students from the entire University, meets one evening a week to perform the great works in choral literature, both sacred and secular.

THE OPERA WORKSHOP, open to all students of the University, performs many works of musico-dramatic interest during the year.

THE UNIVERSITY SINGERS, auditions for which are held during the first week of each quarter, give numerous concerts and tours. There is usually a waiting list of applicants for membership. Within the UNIVERSITY SINGERS are a number of smaller ensembles, such as the Madrigal Singers and various male and female groups.

The University's bands and orchestras have an outstanding record of service to the University and the state.

THE SYMPHONIC BAND, which gives several formal concerts each year of the finest and most difficult wind literature, is comprised of selected student musicians.

THE CONCERT BAND, open to all University students, plays a concert each Spring and serves as a laboratory band for new publications and for student composers and conductors.

THE VARSITY BAND, open to all University students, plays a concert each spring and serves as a laboratory band for student composers and conductors.

THE MARCHING BAND, known as "THE PRIDE OF MISSISSIPPI," presents colorful halftime shows at the University football games and appears regularly on national television. It is open to all University students.

THE DIXIE DARLINGS, a precision drill group, open by audition to the best girl dancers of the University, are well-known nationally through their many televised appearances with the Marching Band.

THE CHAMBER ENSEMBLES perform serious programs of the best original music for smaller groups.

THE PERCUSSION CHOIR AND MARIMBA ENSEMBLE utilizes programs of original music for chamber percussion performance.

THE JAZZ LABORATORY BAND is a full-sized modern jazz ensemble which plays the latest arrangements of music in the big band contemporary idiom.

THE ROTC BAND, open by audition to freshman and sophomore ROTC students, provides music for ROTC functions.

THE UNIVERSITY OF SOUTHERN MISSISSIPPI SYMPHONY, open to all students and faculty members of the University, gives a number of concerts each year in addition to assisting with oratorios and operas.

Scholarships in all these musical groups are available to talented students. Auditions may be arranged through the Dean of the School of Fine Arts.

THE DEBATE SQUAD, recognized as one of the nation's best, is open to all students.

WMSU, the University's own radio, is an affiliate of NBC. The award-winning station encourages participation by any interested student regardless of major.

ATHLETICS

The University of Southern Mississippi is a member of the National Collegiate Athletic Association.

Intercollegiate sports are football, basketball, baseball, tennis, and golf.

Seasonal intramural sports, under the supervision of personnel from the Department of Physical Education, give every student an opportunity to take part in competition. Among the sports included on the program are tennis, golf, touch football, basketball, softball, badminton, volleyball, handball, track, and swimming.

The University golf course, tennis courts, swimming pools, playgrounds, and gymnasium facilities are available to all students.

R. C. COOK UNIVERSITY UNION

The center of student activities at the University of Southern Mississippi is the **R. C. Cook University Union,** which houses many of the student organization offices as well as the Alumni Association, the Placement Bureau, the Division of Extension and Public Service, the University Chaplain, and the Photo Service. Students use the facilities of the University Union for recreation, social, religious, and organizational activities.

The University Union provides the University students a complete program of activities planned and presented through the University Activities Council.

The University Activities Council (UAC) is made up of interested students selected through an application-interview procedure. **UAC** activities include all facets of collegiate programming, the more prominent of which are: weekly movies, concerts, lecturers, special events, and travel.

The University Activities Council is recognized throughout the Gulf South as one of the outstanding collegiate programming groups, budgeted on per-student fee basis that allows all students to attend **UAC** activities on the presentation of their student identification card, except for big name concerts when a nominal fee is charged.

Holding membership in the National Entertainment Conference and in the Association of College Union-International, the **UAC** keeps abreast of collegiate programming trends and developments throughout the nation, as well as the Gulf South.

STUDENT EXPENSES

The University of Southern Mississippi is supported chiefly by legislative appropriations. Increases in student fees are put into effect only when public support funds are inadequate and no other recourse is available. Increases are made only for support of the institution or improvement of the activity program of the students; therefore **the University must reserve the right to increase or modify fees and expenses without prior notice but with approval of the Board of Trustees of State Institutions of Higher Learning.**

Fees and expenses are in the form of incidental fees, room and board, and special fees.

INCIDENTAL FEE. This fee, together with the allocation from the legislative appropriation, is used for general support of the University. Athletic activities and health service are not included for part-time students.

Full-time students for purposes of assessing fees are as follows: Graduate School, seven (7) or more semester hours; all other schools and colleges, nine (9) or more semester hours. Graduate students enrolled for more than thirteen (13) semester hours and undergraduate students enrolled for more than fourteen (14) semester hours will be

assessed the applicable fee for each additional semester hour. (Students training under Veterans Administration programs are required to carry a minimum number of semester hours for the entire quarter to receive full subsistence. The requirements are seven (7) semester hours on the graduate level and nine (9) semester hours on the undergraduate level.)

Textbooks, except for textbooks in foreign language courses and certain other courses, are provided on a loan basis to all undergraduate students.

Clinical and hospital services covered by the health service charge included in the incidental fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical, and physical resources of the Clinic. The University does not assume responsibility in cases of extended illness or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice.

ROOM AND BOARD. The room and board fees are assessed for all students living in University-controlled residence halls and those students living in fraternity houses. All students rooming in residence halls or fraternity houses are required to take their meals in the University Commons.

A room deposit of $15.00 is payable in advance for the reservation of space in the residence halls. This amount is held as a breakage deposit until a student withdraws from the residence hall.

A student accepting residence hall space will be financially obligated to pay the full quarter's room rent. A refund of the residence hall fee will be made only upon withdrawal from the University.

OTHER FINANCIAL INFORMATION. Fees of all students are due and payable at time of registration; however, fees of students enrolled for **six semester hours or more** may be paid one-half upon entrance and the balance one week prior to the beginning of the second half of the quarter. This procedure applies on all campuses and resident center locations only.

The University reserves the right to withhold readmission to a student until all delinquent accounts have been paid. Transcripts of credits will not be issued for students whose accounts are delinquent.

Fines accumulated as a result of failure to adhere to the established procedures of the University, such as Library and Security regulations, or any other policy establishing regulations for the protection of University property, shall become collectible by the Business Office, and, if not collected, shall constitute a delinquent account.

Students whose checks for registration are returned will be assessed the late registration fee of $10.00.

Students who are permitted to register for independent study courses in residence will be charged a fee of $15.00 per semester hour.

A fee of $2.00 for operation of the University Union is included in the fees of all full-time students. A $1.00 fee is added to the incidental fee assessment of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A fee of $6.50 for **The Southerner** (University annual) is payable each school year by all full-time undergraduate students.

NON-RESIDENT STATUS. The Legislature of the State of Mississippi has passed the following legislation concerning non-resident status:

The board of trustees of each junior college in this state, the board of trustees of state institutions of higher learning, and the administrative authorities of each institution governed by said boards, in ascertaining and determining the legal residence of and tuition to be charged any student applying for admission to such institutions, shall be governed by the following definitions and conditions:

Legal residence of a minor. The residence of a person less than twenty-one (21) years of age is that of the father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian of his person, duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

Legal residence of an adult. The residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent.

Removal of parents from Mississippi. If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a non-resident student.

Twelve months of residence required. No student may be admitted to any institution of higher learning as a resident of Mississippi unless his residence, as defined hereinabove, has been in the State of Mississippi for a continuous period of at least twelve (12) months immediately preceding his admission.

Residence in an educational institution not counted. A person who has entered the State of Mississippi from another state and enters an educational institution within twelve (12) months is considered a non-resident. For this reason, any period of time when such a person is enrolled in any educational institution in Mississippi may not be counted as any part of the twelve (12) months prerequisite to his admission to an institution of higher learning as a resident student. Even though he may have been legally adopted by a resident of Mississippi, or may have been a qualified voter, or a landowner, or may otherwise have sought to establish legal residence, such a person will still be considered as being a non-resident of Mississippi if he has entered this state for the purpose of enrolling in an educational institution.

Residence status of a married woman. A married woman may claim the residence status of her husband, or she may claim independent residence status under the same regulations, set forth above, as any other adult.

Children of parents who are employed by institutions of higher learning. Children of parents who are members of the faculty or staff of any institution under the jurisdiction of the board of trustees may be classified as residents during the time that their parents are such faculty or staff members without regard to the residence requirement of twelve (12) months, for the purpose of attendance at the institution where their parents are faculty or staff members.

Military personnel assigned an active duty station in Mississippi. Members of the armed forces on extended active duty and stationed within the State of Mississippi, except those military personnel whose active duty assignment in the State of Mississippi is for educational purposes, may be classified as residents, without regard to the residence requirement of twelve (12) months, for the purpose of attendance of state-supported institutions of higher learning and junior colleges of the State of Mississippi. Resident status of such military personnel who are not legal residents of Mississippi, as defined under "Legal residence of an adult" in paragraph 2 above, shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi.

Children of military personnel. Resident status of children of members of the Armed Forces on extended active duty shall be that of the mili-

tary parent for the purpose of attending State-supported institutions of higher learning and junior colleges of the State of Mississippi during the time that their military parents are stationed within the State of Mississippi and shall be continued through the time that military parents are stationed in an overseas area with last duty assignment within the State of Mississippi, excepting temporary training assignments en route from Mississippi. Resident status of minor children shall terminate upon reassignment under Permanent Change of Station Orders of their military parents for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en route from Mississippi.

Certification of residence of military personnel. A military person on active duty stationed in Mississippi who wishes to avail himself or his dependents of the provisions of paragraph 8, must submit a certificate from his military organization showing the name of the military member; the name of the department, if for a dependent; the name of the organization of assignment and its address (may be in the letterhead); that the military member will be on active duty stationed in Mississippi on the date of registration at the State-supported institution of higher learning or junior college of the State of Mississippi; that the military member is not on transfer orders; and the signature of the Commanding Officer, the Adjutant, or the Personnel Officer of the unit of assignment with signer's rank and title. A military certificate must be presented to the registrar of the State-supported institution of higher learning or junior college of the State of Mississippi each semester or tri-semester at (or within ten (10) days prior to) registration each semester for the provisions of paragraph 8 hereof to be effective.

Aliens. All aliens are classified as non-residents.

REFUND POLICY. A student who officially withdraws after enrollment may obtain a refund in accordance with the following:

a. A refund of 80% of incidental and special fees will be made to a student who withdraws within the week following the week of registration.

b. A student who withdraws for any reason prior to midterm of any quarter but after the week following the week of registration will be refunded 50% of the incidental and special fees.

c. A student who withdraws after midterm of any quarter will not be entitled to a refund of fees.

d. No adjustment of incidental and special fees will be made when courses are dropped after the week following the week of registration.

e. Room and board fees are refunded on the basis of full weeks remaining in the quarter.

TABLE I

EXPENSES EACH CALENDAR QUARTER

(All fees are subject to change without notice. See page 30.)

FULL-TIME STUDENTS

Fixed Fees

	Incidental fee	$159.00
	*Room rent—air conditioned residence halls	110.00
	Room rent—other residence halls	90.00
	No-hours Privilege—specified residence halls ..... extra	10.00
	*Board	125.00
*Note:	Hillcrest (Room and Board)	280.00
	Elam Arms (Room and Board)	280.00
	Vann Hall (Room and Board)	255.00

Other Fees When Applicable

Non-resident fee	$200.00
The Southerner	6.50
Post Office box, per quarter	1.25

PART-TIME STUDENTS—**Each semester hour**

Incidental fee graduate student	$24.00
Incidental fee undergraduate student	19.00
Non-resident fee:	
Graduate student	29.00
Undergraduate student	23.00

Note: These part-time fees apply on all campuses.

TABLE II

SPECIAL FEES AND EXPENSES

Departmental Fees:

Adult Education CIA 495	$20.00	per course
Elementary Education 480, 482, 484, 492, 493 each	20.00	per course
Home Economics Education 403	20.00	per course
Home Economics Education 405	10.00	per course
Special Education 480, 482, 483, 485, each	20.00	per course
Library Science 489	10.00	per course
Secondary Education CIS 481, 482, 483, 484, 485, 486, 487, 488, 489, 491, 492, 493, 494, 496	20.00	per course

Music Fees—Private Lessons for other than Full-time Music Majors:

1 quarter hour per instructor	$19.00	per quarter
2 quarter hours per instructor	36.00	per quarter
3 quarter hours per instructor	53.00	per quarter
Each additional supervised lesson	17.00	per quarter
*Orchestral or Band Instrument rental	6.00	per quarter

*This fee applies to music majors and minors as well as to other students.

Reading Center, Individual Remedial Instructions:

Special Students (Non-credit)	$25.00	per quarter
Complete Reading Diagnosis	20.00	with written report
Re-evaluation	5.00	

Speech and Hearing Clinic Services:

Audiometric Pure Tone Test	$ 5.00
Diagnostic Hearing Evaluation	10.00
Hearing Aid Evaluation	15.00
Hearing Evaluation for Medical-Legal Compensation Claims	25.00
Diagnostic Speech Evaluation	10.00
Speech or Hearing Therapy fees per session	2.00
Therapy fees for University students per quarter	5.00

Examinations and Graduation:

Challenge Examination	$10.00	
Revalidation Examination	5.00	when applicable
Special Examination	3.00	when applicable
Graduation fee—Bachelor*	12.00	with application for degree
Certificate	2.75	when applicable

Extension and Public Service

Resident Center

Undergraduate Course	$19.00	per semester hour
Graduate Course	24.00	per semester hour

Resident Center—laboratory fee	6.00	per course
Resident Center—typing fee	5.00	per course
Extension Center		
Undergraduate Course	19.00	per semester hour
Graduate Course	24.00	per semester hour
Independent Study Courses	15.00	per semester hour
High School Independent Study Courses	25.00	per half unit
Registration and Records:		
Change of Schedule	5.00	when applicable
Late Registration	10.00	
Evaluation Fee for Foreign Students (Non-refundable)	10.00	with application
Memorandum of credits	.50	each
Transcript of Credits	1.00	when applicable

*Requests for refund of this fee will be based on circumstances existing at the time of request in accordance with policy on file.

STUDENT AID AND SCHOLARSHIPS

The following information is a summary of the student aid and scholarship program. For further information and application forms, write to:

Director of Student Aid and Scholarships
University of Southern Mississippi
Southern Station, Box 101
Hattiesburg, Mississippi 39401

APPLICATIONS. All applicants for student aid of any type must have been accepted for admission at the University before assistance can be granted. This does not preclude the submission of an application for assistance at the time application for admission to the University is made. Applications should be made before June 1st with one exception. Entering freshmen must apply by May 1.

PARENTS' CONFIDENTIAL STATEMENT REQUIRED

The University of Southern Mississippi participates in the College Scholarship Service (CSS) Financial Needs Analysis of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. All students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service, designating the University of Southern Mississippi as one of the recipients, by April 15. The PCS form may be obtained from a secondary school, or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540, or P. O. Box 1025, Berkeley, California 94704.

NOTE: The Parents' Confidential Statement alone is *not* an application for assistance. This statement is, however, a very important and necessary part of the application for the National Direct Student Loan, College Work-Study Program, and the Supplemental Educational Opportunity Grant Program.

STUDENT EMPLOYMENT ON CAMPUS. Student jobs are awarded during the month of August (and as vacancies occur during the school year) to those students who have applied for them. Students work from ten to fifteen hours per week. Student employees are paid the minimum wage. These student employees (approximately 400) are an important part of the working staff of the University, and their work must be done in a highly efficient manner. Applications received after August 1 cannot be considered for the fall quarter.

OFF-CAMPUS EMPLOYMENT. Work in town is available to many students. Employers often call the University for part-time workers. Students who have applied for this type work are referred to them. Approximately 500 students hold part-time positions in the city of Hattiesburg. Salaries vary according to the position held. Applications for work in town are received at any time during the year. Referrals are made as requests are received from employers.

MERIT SCHOLARSHIPS. Merit Scholarships, based on scholarly ability, are available in all fields of study. They range in value from $100.00 to $500.00 for the nine months. Students who have demonstrated outstanding ability in any particular field of study are encouraged to apply for one of these scholarships.

REGIONAL MERIT SCHOLARSHIPS. A limited number of Regional Merit (out-of-state) Scholarships are awarded to students of exceptional ability whose residence is outside the State of Mississippi. These scholarships are valued up to $600.00 for the nine months. This scholarship represents a waiver of non-resident fees.

SERVICE SCHOLARSHIPS. Service Scholarships are based on skill and ability. These scholarships are available in band and music as well as in athletics and range in value from $100.00 to over $500.00 for the nine months.

LOAN PROGRAMS. Loan programs, both short-term and long-term, are available to the student who needs to make use of them. The University administers the National Direct Student Loan, the Federally Insured Loan, and the Nursing Student Loan. Additional information may be obtained by writing the Director of Student Aid and Scholarships.

COLLEGE WORK-STUDY PROGRAM

Title I, Part C, of the Economic Opportunity Act of 1964 initiated the College Work-Study Program to stimulate and promote the part-time employment of students in institutions of higher education who are from low-income families or are in need of the earnings from such employment to pursue courses of study at such institutions. Primary consideration is given to those students from low-income families. Additional information may be obtained by writing the Director of Student Aid and Scholarships.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS

Supplemental Educational Opportunity Grants were authorized by the Higher Education Amendments of 1972. An institution may award a Supplemental Educational Opportunity Grant to a student only if it determines that such student: (1) is a national of the United States for other than a temporary purpose and intends to become a permanent resident; (2) has been accepted for enrollment as a full-time undergraduate student, or is in good standing and in full-time attendance as an undergraduate student; (3) shows evidence of academic or creative promise and capability of maintaining good standing in his course of study; (4) is of exceptional financial need; and (5) would not be financially able to attend the institution without a Supplemental Educational Opportunity Grant. A student who attends school part-time is not eligible for a grant. A grant **may not** be given to any student for study beyond the **first four** years of full-time study.

LAW ENFORCEMENT EDUCATION PROGRAM

Title I, Part D., Section 406 of the Omnibus Crime Control and Safe Streets Act of 1968 (Public Law 90-351) authorized the establishment of the Law Enforcement Education Program.

The Law Enforcement Education Program provides assistance through both grants and loans. Both grants or loans are available to in-

service law enforcement personnel. Pre-service applicants are eligible for loans only. Pre-law and law students are not eligible to participate in this program.

Additional information and application forms may be secured by writing the Director of Student Aid and Scholarships.

ROTC SCHOLARSHIP PROGRAM

See Military Science and Aerospace Studies sections for scholarship information.

UNIVERSITY OF SOUTHERN MISSISSIPPI FOUNDATION

The University of Southern Mississippi Foundation is a Mississippi corporation whose sole purpose is to receive and manage gifts, contributions, and donations to the University of Southern Mississippi for educational purposes. It provides a centralized receptacle for receiving gifts of any nature to the University, handling these in a manner prescribed by the donor or in accordance with good business judgment, and making the gifts work for the growth and development of **Southern.** The Foundation is managed by a Board of Directors composed of former students and friends of the University.

The Foundation Charter was so drawn that assistance could be given to any area of development at **Southern** so long as it is used for educational purposes. Some of the long-range plans include: sponsoring research, sponsoring faculty chairs, supplementing faculty salaries, aiding the library, providing special equipment, making possible achievement awards for faculty and students, providing fellowships and scholarships, and contributing to the building of the physical plant.

During the early years of the Foundation, emphasis will be placed on securing scholarship funds. This is considered to be one of the greatest needs at the present time. The Foundation solicits the funds, but the awards are made by the University Scholarship Committee.

SCHOLARSHIPS AVAILABLE THROUGH THE FOUNDATION

Accounting Achievement Endowment—Scholarships to recognize achievement by accounting majors and other activities for the benefit of the Department of Accounting.

Alpha Psi Omega—Scholarships for students in the Department of Theatre Arts.

American Legion Post #139, Bay St. Louis—Scholarships for worthy undergraduate students who maintain "C" or better average with preference given to children of Post members who reside in Hancock County.

Oliver V. Austin—Deserving, undergraduate major in science.

Carrie Norton Herring Bennett—Fellowship to be awarded to a graduate student in the School of Home Economics upon the recommendation of the faculty of that School. Recipients must pay at least half of the sum received within two years of graduation or last attendance.

R. G. Bigelow—High academic, junior, senior, or graduate student who plans to teach.

Kathy Brown—Sponsored by Pen and Sword—Funds from this endowment program shall be awarded to: 1—Active military personnel or dependents of former USM bootstrappers; 2—Dependents of military personnel; or 3—Other eligibles.

Clyde C. Bryan—Music majors, sophomore or advance standing, good academic average, Baptist, financial need. Sponsored by Mr. and Mrs. J. D. Thomas of Hattiesburg. Two awarded.

Century Club—Scholarships for athletes.

Mr. and Mrs. A. F. Chisholm—Capable and deserving student.

Citizens Bank, Columbia—Capable and deserving Marion County student.

Citizens Bank of Hattiesburg—Capable and deserving student with preference given to Forrest County and/or Mississippi.

William M. Colmer American Studies Scholarship—Recommendations will be made from American Studies Committee, Chairman, Department of Political Science, and Dean of the College of Liberal Arts for students in American Studies who demonstrate the ideals which Mr. Colmer held in love, loyalty, patriotism to his country.

Commercial National Bank and Trust Company, Laurel—Capable and deserving Jones County student.

Betty Dukes Craft—Sponsored by Forrest County Home Economics Alumnae and James K. Dukes, brother of Betty Dukes Craft. Outstanding student in Home Economics.

Distinguished Professor Award—Presented in the name of the Distinguished Professor of the Year in the same discipline.

Environmental Science Technology—Majors in this area.

W. R. Fairchild Construction Company—Capable and deserving students from Covington or Forrest County; and one in Accounting.

Faulkner Concrete Pipe Company, Hattiesburg—Merit and need.

First Federal Savings and Loan Association, Hattiesburg—Economics or Finance.

First Federal Savings and Loan Association, Pascagoula-Moss Point—Capable and deserving Jackson County student.

First Mississippi National Bank, Hattiesburg—Best interest of the University with preference to surrounding area students. Economic need a factor. Ten awarded.

First National Bank of Laurel—Awarded to a resident of Covington, Jasper, Jones, Perry, Smith, or Wayne County.

Mr. and Mrs. L. Y. Foote Endowment—Best interest of the University with economic need a factor.

Forrest County Alumni Chapter—Capable and deserving Forrest County students.

Foxworth Bank, Columbia—Deserving Marion County student.

Bertha M. Fritzsche Graduate Fellowship—Outstanding student in Home Economics.

General Merit—Any student is eligible on merit basis; several given.

Gulf National Bank, Gulfport—Hancock or Harrison County student with "B" average in high school with financial need.

Lester Haddox—Worthy and promising student from Marion, Amite, Lincoln, Pike, or Walthall County.

Sarah L. Hagenson—To be awarded to a student majoring in early childhood education upon recommendation by College of Education and Psychology.

Hancock Bank, Gulfport—Junior or senior student residing in Hancock or Harrison County, majoring in Business Administration.

Mary Stuart Harmon Memorial—Outstanding student in piano.

Harrison County Alumni Chapter—Capable and deserving Harrison County students.

Hattiesburg Federal Savings and Loan Association—Capable and deserving student; given in memory of deceased directors.

W. B. Harlan Memorial—Economic need, male student in Business Administration.

Alma Hickman—Capable and needy student.

Jones County Alumni Chapter—Capable and deserving Jones County students; preference given to junior or senior students.

Junior Panhellenic Council—Recommended by Panhellenic Council.

Eleanor and J. B. Kirkland—Capable and deserving students who need financial assistance.

Ethel Whatley Kroker—Awarded to capable and deserving students with preference given to blood relatives, according to ability and financial need.

Mr. and Mrs. J. D. Lewis Endowment—Scholarship to be awarded on the basis of citizenship record, economic need, academic work, and Mississippian.

L & A Contracting Company—Capable and deserving student.

Lamar County Alumni Chapter—Capable and needy Lamar County student.

Laurel Federal Savings & Loan Association—To be awarded to a student majoring in Finance, Economics, or Business Administration who resides in Jones, Wayne, Jasper, Covington, Smith, Simpson or Perry County who needs financial assistance.

E. Lubritz—Capable and deserving junior or senior student majoring in Art Education.

Raymond Mannoni—Students majoring in the School of Fine Arts on merit basis.

Marion County Alumni Chapter—Honoring Doyle M. Coats and Miss Chrystelle Ford; to be presented to an otustanding Marion County student.

Medical Technology—Majors in this area.

Merchants Bank & Trust Company, Gulfport—Hancock or Harrison County student with preference to junior or senior in Business or Finance.

Sam Miller—Capable and deserving student.

Mississippi Broadcasters Association—Radio-TV-Film major, resident of Mississippi, reasonable academic standing, financial need.

"Miss Southern"—Provides scholarships to students participating in the Miss Southern Pageant.

Movie Star Corporation—Capable and deserving student; preference given to children of employees.

William Walter Munson Memorial—Worthy boys and girls who are enrolled as regular students.

Nursing Scholarships—Capable and deserving students majoring in nursing.

George Robert Olliphant Memorial—Scholarships for needy and deserving students from Mississippi with preference to Enterprise or to Clarke County.

Paint Research Institute—Graduate fellowship in Chemistry.

Peck Oil Company—Capable and deserving Forrest County student.

The Peoples Bank of Biloxi Award—A student from Biloxi, D'Iberville, or St. Martin who is in need of financial assistance, majoring in Finance or Banking.

Pine Belt Savings & Loan Association—Capable and deserving student who resides in the area of operations of the Association in the School of Business Administration.

Pi Omega Pi—Outstanding student in Business Education.

Lindsey Risher-Philip Morris—Upperclassman with average or better grades, good character, in great need of financial assistance to complete his education.

M. M. Roberts—Capable and deserving undergraduate student who is a Mississippian.

Security Savings & Loan Association of Bay St. Louis and Gulfport—Capable and deserving student from Hancock or Harrison County.
Tom Pevey Memorial Award—Sponsored by Hattiesburg Lion's Club for Speech and Hearing Science majors.
W. W. Stout Memorial—Creative student majoring in English.
Study Abroad—To assist students in their Studies Abroad Program sponsored by the Foreign Language Department.
Emmett V. Thomas—Capable and deserving students.
John D. Thomas Family Home Economics—Capable and worthy student majoring in Home Economics.
William A. Thomson—Capable and deserving student in the Hattiesburg area.
Douglas A. Traweek—Senior student with preference given to Clarke County.
B. O. Van Hook Golf Scholarship—Scholarships for outstanding members of the golf team.
Paul Waldoff Memorial—Mississippian, economic need, Mathematics major.
Washington County Alumni Chapter—Capable and deserving students from Washington County.
Winn-Dixie Stores Foundation—Junior or senior, residence, and other requirements.
Ivah O. Wilber Panhellenic Scholarship—To be awarded annually to a sorority woman upon recommendation of the Assistant Dean of Students, the Panhellenic Adviser, and the Panhellenic Council in memory of the former Dean of Women and Panhellenic Adviser.
John Everett Williams Memorial—Sponsored by Jackson County Alumni Chapter—Outstanding students from Jackson County.
1958 Class Endowment—Capable and needy student.
1959 Class Endowment—Capable and needy student.
1960 Class Endowment—Capable and needy student.
1961 Class Endowment—Capable and needy student.
1962 Class Endowment—Capable and needy student.
Scholarship Fund of the Sixties—Capable and needy student.

LIBRARY

The Joseph Anderson Cook Memorial Library is a modern, two-story building completely fire-proof and air-conditioned. Of modular construction, it is arranged in four large divisional areas, each division containing its own current and bound periodicals, classified books, and other materials in the subject field. Book stacks to accommodate 400,000 volumes and reading areas for 1,400 students are intermingled throughout the Library, with the book stacks open to all. Special features are the study carrels, exhibit areas, a micro-reading area, typing room, bibliography room, and a rare book room. The Library Science Department is housed on the second floor of the building, as are the rooms containing Mississippiana and archives.

The Library is open from Monday through Friday from 7:45 A.M. to 10:30 P.M., Saturday from 8:00 A.M. to 6:00 P.M., and Sunday from 2:00 P.M. to 10:00 P.M.

THE BILBO COLLECTION

In 1961, the University acquired, through the efforts of Dr. William D. McCain, President, the Theodore G. Bilbo papers. This collection contains an estimated 1,000,000 pieces of Bilbo correspondence. The letters cover Theodore G. Bilbo's public life from January 1, 1923, until his death in 1947. Correspondence to Bilbo came from persons in all walks of life and covered both personal and public matters.

To quote Dr. McCain "This is the only complete file of papers and records of any Mississippian of prominence in the political life of the

state to be preserved in a public depository. We are most happy, as I am sure the majority of Mississippians are, that this priceless collection has been saved for study and use by future generations."

As many persons still in public life are included in the collection, and because of the frankness of the correspondence, use of the material must be restricted to approved research.

Theodore G. Bilbo served in the Mississippi State Senate, was Lieutenant Governor, served as Governor in 1916 and 1928 (the first person to serve a second term as Governor of Mississippi), and was a U.S. Senator from 1934 until his death in 1947.

THE WILLIAM M. COLMER PAPERS

Through the efforts of Dr. William D. McCain, President of the University of Southern Mississippi, the first installment of the William M. Colmer Papers were acquired by the University Library in 1970. These papers, which have been indexed by Waller Batson, cover William M. Colmer's congressional activities from 1933 to 1962. Included in the papers are Congressman Colmer's general correspondence, correspondence related to positions, legislative bills introduced by Colmer and correspondence on these bills, newsletters, speeches, and miscellaneous statements and news releases.

Congressman Colmer served in Congress longer than any other Mississippian; he assumed office on March 4, 1933, as did President Franklin D. Roosevelt. Colmer's papers cover the period from the depression, through three wars, to the present period of unrest. They reflect his reaction and the reaction of his constituents to the events of this period. His papers offer a rich source of research to qualified scholars.

THE SAM WOODS COLLECTION

The Sam Woods Collection, a gift of the late Sam E. Woods, alumnus of the University and a former consul general of Switzerland, is comprised of paintings, large Flemish tapestries, antique furniture, and rare books. In the collection are 230 paintings, including the *Holy Family* by Amigoni from the Stennis Collection, a Murrillo copy of the *Holy Family* from the Prado Gallery, and many Rembrandt and Durer etchings and woodcuts, as well as oils and water colors by contemporary German artists. They have been hung in the President's Home, the Library, and other main buildings throughout the campus. This collection of paintings is probably the largest in the state. Much of the furniture is of the Renaissance period.

The very valuable collection of more than 1100 early printed and fine press books includes several rare Bibles which have hand-carved bindings and which are illustrated by Durer and other artists. The collection also includes several atlases of the sixteenth and seventeenth centuries. Of special interest are approximately fifty beautifully illuminated pages from incunabula, as well as globes made before 1800 and maps of America and other countries made before 1700. This collection is housed in the Sam Woods Room in the Library.

CHILDREN'S LITERATURE COLLECTION

In 1966 Dr. Lena de Grummond began the establishment of a special collection of children's literature in the University Library. The collection can be divided into two parts: (1) children's books published before 1900; and (2) the acquisition of manuscripts, original illustrations, sketches, and dummy books that have been used in the writing, illustrating, and publishing of contemporary children's books. Over six hundred persons, including many of the best known writers and illustrators of children's books of today, have contributed their original materials to the collection. It has developed so rapidly that the collection already

contains over 11,201 drawings and illustrations, 3,446 photographs, 2,651 manuscripts, and 298 dummy books. Through manuscripts with their frequent revisions and the alterations between rough sketches and the completed illustrations there is a record of the creative process for some of the writers and illustrators of children's books.

THE ENGLISH LANGUAGE INSTITUTE

The English Language Institute offers five- and ten-week orientation courses to non-English speaking people, with classes in the culture and customs of the United States and in the English language, including conversation, grammar, and composition. These courses are attended by business and professional people as well as students from colleges and universities throughout Latin America, Europe, and Asia.

The Institute offers the international student the opportunity to meet English-speaking students and participate in the extra-curricular activities of the University.

Students enrolled in the English Language Institute receive over 300 hours of instruction during the ten-week period, using the latest teaching methods and materials including teaching machines and programmed texts, tapes, audio-visual aids, etc.

Both the Michigan Language Proficiency Test and the Educational Testing Service's Test of English as a Foreign Language are offered through the Institute at specified dates during the year. Any international student may take these examinations by applying in advance to the Institute or respectively to the University of Michigan or to the Educational Testing Service. For further information, write to:

The Director
English Language Institute
University of Southern Mississippi
Southern Station, Box 65
Hattiesburg, Mississippi 39401

UNIVERSITY OF SOUTHERN MISSISSIPPI ALUMNI ASSOCIATION

The Alumni Association has been in existence since 1917. During the early years its chief function was related to placement service. Beginning with the session of 1945-1946, the organization experienced a rebirth. Recognizing the fact that a working alumni association is vital to the development of the institution, the Executive Committee began the organization of alumni groups in the various counties of the state. On July 1, 1953, a full-time executive secretary was employed.

The Association publishes the ALUMNI NEWS magazine four times a year. Active members of the Association receive all issues while four issues of SOUTHERN NEWS AND VIEWS are mailed to all persons on record in the Alumni Office. Graduates and former students are urged to become active members of the organization and to help support the program of activities that is designed to assist the University in its growth and development.

The Alumni Association sponsored the drive to raise the funds necessary for the construction of the R. C. Cook University Union Building. These funds were secured from alumni, faculty, students, friends, and the people of Forrest County and the state.

For the past several years the Association has enlisted in excess of 10,000 active members. This has grown from 158 during the 1952-1953 year.

Two meetings of the general association are held each fiscal year, the first at the annual homecoming in the fall and the second at the Mississippi Education convention in Jackson.

At the 1954 Homecoming meeting, the association voted to observe March 30 as University of Southern Mississippi Day. Former students of the University are urged to get together on this date when two or

more reside in the same area. Organized chapters elect officers at this meeting. March 30 was selected from the important dates in the history of the school because it was on this day in 1910 that the Mississippi Legislature enacted legislation establishing the institution.

The Alumni Association helped set up the University of Southern Mississippi Foundation which is the receptacle for all gifts to **Southern,** which gifts are, in turn, channeled into scholarships for the students.

The Association organized, and works very closely with, the Student-Alumni Association. The purpose of this organization is to get students involved with the activities which the Alumni Association promotes in the interest of the University. A maximum of 100 students are selected on the basis of their leadership ability and where they reside; these students are a very interested and active part of the Association.

PLACEMENT BUREAU

The function of the Placement Bureau is dual in nature. It provides assistance to graduating seniors, graduate students, and alumni in obtaining suitable employment, and to employers in recruiting qualified employees. The services are provided at no cost to the student or to the employer.

Throughout the year, current listings of employment opportunities, both in state and out of state, in teaching, business, industry, and government are made available to the students. Also, on-campus interviews are scheduled with personnel representatives from schools, businesses, industries, and governmental agencies. Students registered with the Bureau are notified of these interview schedules, and all who are interested are given the opportunity for individual interviews.

All seniors should register with the Placement Bureau and establish a confidential placement credential folder during the last quarter of their junior year, or the first quarter of their senior year. These placement credentials are very valuable to on-campus recruiters and to those who telephone or write for information about prospective employees. After graduation and/or when the registrant has found suitable employment, the placement file is stored and may be quite helpful in later years if a registrant wishes to change employment or to enter graduate school.

ACADEMIC ORGANIZATION AND REQUIREMENTS

Organization for Instruction

General Academic Regulations

Degree Requirements

A. ORGANIZATION FOR INSTRUCTION

The University of Southern Mississippi for purposes of undergraduate instruction is organized into the College of Education and Psychology, the College of Liberal Arts, the College of Science and Technology, the School of Business Administration, the School of Fine Arts, the School of Home Economics, the School of Nursing, the School of Health, Physical Education, and Recreation, and the Division of Extension and Public Service. Except for the Division of Extension and Public Service these are all degree-granting colleges and schools.

The University of Southern Mississippi grants the following baccalaureate degrees:

from the College of Education and Psychology:

the Bachelor of Science "Professional" or teaching degree
the Bachelor of Arts non-teaching degree
the Bachelor of Science non-teaching degree

from the College of Liberal Arts:

the Bachelor of Arts
the Bachelor of Science

from the College of Science and Technology:

the Bachelor of Science
the Bachelor of Arts

from the School of Business Administration:

the Bachelor of Science in Business Administration

from the School of Fine Arts:

the Bachelor of Fine Arts
the Bachelor of Music
the Bachelor of Music Education
the Bachelor of Arts

from the School of Health, Physical Education, and Recreation:

the Bachelor of Science

from the School of Home Economics:

the Bachelor of Science

from the School of Nursing:

the Bachelor of Science

ADDITIONAL INFORMATION

To be eligible for any of these baccalaureate degrees, the student must complete:

1. The General Core curriculum
2. Any additional curricular requirements of the particular college or school in which he will graduate
3. Requirements for a major or majors and a minor (if a minor is required)
4. Any other specific requirement for the chosen degree, or the major or minor

Specific requirements for major and minors are outlined under each department in the Colleges and Schools Section of this catalog.

Academic Programs Currently Offered

The baccalaureate or undergraduate degree may currently be earned in any of the following areas of specialization. Graduate or post-baccalaureate degree programs are detailed in the **Graduate Bulletin.**

College of Education and Psychology

- Adult Education
- Bilingual Executive Secretarial Studies
- Business Teacher Education
- Elementary Education
- Executive Secretarial Studies
- Industrial Arts
- Industrial and Vocational
- Library Science
- Office Management
- Psychology
- Science Education
- Secondary Education
- Social and Rehabilitation Services
- Special Education

College of Liberal Arts

- Advertising
- American Studies
- Anthropology
- Audiology
- Classics
- Communication
- Community and Regional Planning
- Criminal Justice Studies
- Economics
- Education of the Deaf
- English
- French
- General Speech Education
- Geography
- German
- History
- Journalism
- Language Disorders
- Latin American Foreign Trade and Finance
- Latin American Studies
- Linguistics
- Philosophy
- Political Science
- Pre-Law*
- Public Address
- Radio-Television-Film
- Russian
- Social Studies
- Sociology
- Spanish
- Speech and Hearing Sciences
- Speech Pathology
- Teaching English to Speakers of Other Languages

College of Science and Technology

- Architectural Technology
- Biology
- Building Construction Technology
- Chemistry
- Computer Science
- Computer Technology
- Data Processing
- Environmental Technology
- Food Science and Technology
- Geology
- Industrial Technology
- Mathematics
- Mechanical Technology
- Medical Records Administration
- Medical Technology
- Microbiology
- Physics
- Plastics Technology
- Polymer Science
- Pre-Dental*
- Pre-Engineering*
- Pre-Medical*
- Pre-Optometry*
- Pre-Pharmacy*
- Pre-Physical Therapy*
- Pre-Veterinary Medicine*
- Science Education
- Statistics

School of Business Administration

- Accounting-Data Processing
- Advertising
- Economics
- Finance
- General Business
- Industrial Management
- Marketing
- Personnel Management
- Professional Accountancy
- Real Estate and Insurance
- Sales Management

School of Fine Arts

- Applied Music
  - Organ
  - Percussion Instruments
  - Piano
  - String Instruments
  - Voice
  - Wind Instruments
- Art
- Art Education
- Church Music
- Dance
- Drawing and Painting
- Elementary Music Education
- Graphic Communication
- Instrumental Music Education
- Jazz
- Keyboard Instrument Education
- Music History and Literature
- Theatre
- Theory-Composition
- Three-Dimensional Design
- Voice Education

School of Health, Physical Education, and Recreation

- Athletic Administration and Coaching
- Corrective Therapy
- Health and Physical Education
- Recreation

School of Home Economics

- Child Development
- Clothing and Textiles
- Clothing Merchandising
- Food and Nutrition
- Home Economics Education
- Home Economics in Equipment
- Institution Management
- Institution Management-Dietetics
- Marriage and Family Living

School of Nursing

- Nursing

Obviously, many of these majors involve the closest cooperation among the University's academic departments. A detailed analysis of degree programs, majors, and minors is found under the section of this catalog devoted to each specific school or college.

*A baccalaureate degree may not currently be earned in this special program at the University of Southern Mississippi.

B. GENERAL ACADEMIC REGULATIONS

1. Quarter Calendar: The University of Southern Mississippi is on the quarter calendar which means that in one academic year, which begins with the fall quarter and ends with the summer quarter, a student may earn four complete quarters of credits which are awarded in semester hours. A normal quarter is eleven weeks in length and a semester hour of credit represents seventy (70) minutes of class time per week (laboratory periods are normally 140 minutes).

2. Penalties for Late Registration: Registration will continue after the close of the scheduled registration period (see Calendar) for six class days. Beginning at 8:00 A.M. on the seventh day of scheduled class work all registration will cease for that quarter.

A late registration fee will be charged to all students registering after the scheduled registration period. The fee is ten dollars ($10.00).

The course load for which one can register will be reduced to nine (9) semester hours beginning with the fourth day of scheduled class

work. An exception to this regulation may be made by the appropriate dean. Students registering for the second term of a quarter cannot register for a full load after the second day of the new term.

3. Change of Schedule and Withdrawal from the University. A student may be allowed to drop a course through the 20th class day. A student dropping a course after this deadline will receive a grade of G or H. In rare cases, a dean may permit a student to drop a course after the deadline without penalty if extenuating circumstances exist. A fee of five dollars ($5.00) is charged for a change in registration after the regular scheduled registration period (see Calendar).

A student withdrawing from the University prior to the deadline for dropping classes will not receive any grades. His record will show the date of withdrawal only. A student withdrawing after the deadline for dropping courses will receive a grade of G (withdrawal passing) or a grade of H (withdrawal failing).

4. Load of Work: The normal student load is nine (9) to thirteen (13) semester hours.

1. Freshmen—not over **13** hours without Dean of School approval. Then, based on ACT score of 25 and other achievement criteria, up to 16 hours. Sixteen hours is the maximum load for freshmen.
2. Sophomores—not over **14** hours without Dean of School approval based on 3.5 GPA. Seventeen hours is the maximum load for sophomores.
3. Junior College Transfers—not over **13** hours without Dean of School approval.
4. Junior and Seniors—not over **15** hours without Dean of School approval. A maximum of 18 hours may be taken if the student has an overall GPA of 3.50.
5. Graduate Students—twelve hours maximum; nine hours if the student holds a one-fourth-time fellowship; six hours if the student is working one-half time.

5. Absences: Students are expected to attend all classes each time the classes meet. When it is necessary that a student be absent from a class, courtesy requires an explanation to the instructor in charge. Class attendance policy will be set by the professor. It will be the responsibility of each professor to notify his classes at the outset of each quarter as to the attendance requirements to which each student must adhere. Teachers should report all excessive absences to the Associate Dean of Students. When students are absent because of sickness or other acceptable reason, their professors are so notified by the Associate Dean of Students. An absence on a day immediately preceding or following an official holiday is considered as two absences.

6. Examinations: Examinations will be held on the last three days of each quarter (see Calendar).

During the first term of the summer quarter, the last regularly scheduled meeting of a class will be used for examination purposes for that term's courses.

No final examinations are permitted prior to the scheduled examination period (see Calendar).

A student who is absent from the examination without valid reason approved by the Dean of the University forfeits credit for the quarter. Students will be charged a fee of $3.00 for special examinations unless excused by the appropriate dean.

7. Grading System:

A—indicates very superior work and carries 4 quality points per semester hour.

B—indicates excellent work and carries 3 quality points per semester hour.

C—indicates average work and carries 2 quality points per semester hour.
D—indicates inferior to average work and carries 1 quality point per semester hour.
E—indicates course in progress. Not included in grade point average. A grade of E must be removed by registering for the course again, except for those courses that extend for a period longer than a normal term.
F—indicates failure and carries no quality points. A grade of F may not be removed by taking an independent study course without the approval of the dean of the appropriate school.
I —indicates an incomplete record. An I becomes an F if the work is not completed within the next twelve months, or, if the student is not in residence during all the next twelve months, within the next quarter of attendance after the expiration of the twelve-month period. A grade of I may not be removed by taking an independent study course without the approval of the dean of the appropriate school. These courses are not counted in students' GPA until removed or if they become a grade of F.
G—indicates withdrawal from a course passing. No student will be allowed to withdraw from a course after twenty (20) scheduled class days except under unusual circumstances approved by the appropriate dean.
H—indicates withdrawal from a course failing.
P—indicates a passing grade in non-credit courses or courses taken on a pass-fail basis.

Note: A faculty regulation provides that except in cases of obvious clerical error, a grade of A, B, C, D, or F may not be changed without permission given by the faculty in regular meeting.

Pass-Fail: Beginning with the Fall Quarter, 1970-1971, students may take courses either on a pass-fail basis or for a grade. Students must exercise their option at the time for registration and may not alter that option after the deadline for schedule changes. Courses elected on a pass-fail basis will be treated in the same manner as independent study. No more than thirty-six (36) semester hours earned in independent study, extension work, or pass-fail courses, with a limit of eighteen (18) semester hours of pass-fail courses, may be applied toward a degree. No more than twelve (12) semester hours earned from the same department by independent study, extension work, or pass-fail courses may be applied toward a degree. A student may not take a course on a pass-fail basis to remove an F or an Incomplete. Such courses can not be a part of a prescribed degree program, i.e., core requirements, major, or minor, except for physical education courses in the General Core.

Audit: A student who takes a course for audit (non-credit) must meet the class in the same manner as the student regularly enrolled. The fee for audit is the same as if registered for credit.

Computation of Grade-Point Averages: Quality point averages are based on the number of hours undertaken rather than the number of hours passed in determining whether a student meets minimum standards. Total hours attempted will include credit undertaken at the University and credit transferred; the quality point average will involve credit for courses attempted at the University of Southern Mississippi as well as transferred credit. Courses in which a student receives an **I** or an **E** will not be counted in the "total hours attempted."

An undergraduate student will be permitted to repeat courses a total of six (6) times or a total of eighteen (18) semester hours in order to improve his grade-point average. (That is, he may repeat one three-hour course six times, three three-hour courses twice each, six three-hour

courses once each, etc.). The six-repeat rule shall include all repeats including junior college or any other college or university work. The first six (6) repeats used shall stand. Other than these "repeats" all credit attempted will be used in computing the grade-point average. This policy became effective with courses taken after September 1, 1967.

Dean's List: Students will be placed on the Dean's List if they have maintained a quality point ratio of 3.25 or above on an academic load of ten (10) semester hours or more, provided they have no grade of D or below.

President's List: Students will be placed on the President's List if they have earned a quality point ratio of 4.0 (all A's) on a load of ten (10) semester hours or more.

8. Academic Standards: The following standards for continuing in residence at the University of Southern Mississippi are in effect as of September 1, 1973.

An undergraduate student will be allowed to continue in the University as long as he maintains the following grade point average.

Total Hours Attempted (Including transfer credit)	**Required Grade Point Average** (Including transfer credit)
18 through 24	1.25
25 through 36	1.50
37 through 48	1.65
49 through 60	1.75
61 through 72	1.80
73 through 84	1.85
85 through 96	1.90
97 through 108	1.95
109 and above	1.97
For graduation	2.00

The student will not be placed on probation prior to suspension. He will be suspended for the period following his failure to make the minimum scholastic standards. Notice of suspension will be carried on the end-of-quarter grade report. Total hours attempted will include credit undertaken at the University and credit transferred. The quality point average will involve courses attempted. Courses in which a student receives an I will not be counted in the "total hours attempted."

Appeals for reinstatement by students suspended under this policy will be directed to the department chairman of the college or the dean of the school in which the student is enrolled.

Any student who earns a 0.00 grade point average on nine (9) or more hours for any one term will be automatically suspended regardless of his overall grade point average, and must appeal the suspension in the same manner as any other academically suspended student.

The first and second suspension will be for at least one quarter and the third suspension will be permanent. The transcript will only indicate "Academic Suspension" and the date.

Students on academic or disciplinary suspension may not enroll in courses offered by the University of Southern Mississippi.

9. Memorandum of Credits: A memorandum of credits is a statement available from the Office of the Registrar showing the courses completed and credits earned by the student as of the date of the memorandum. Memoranda are fifty cents each.

10. Classification of Undergraduates: A student is classified as a: Freshman when he has less than 27 semester hours of earned credit;

Sophomore when he has as many as 27 semester hours and less than 54 semester hours; Junior when he has as many as 54 hours and less than 87 hours; Senior when he has 87 or more semester hours of earned credit.

11. Course Numbering: Freshmen courses are numbered from 100 to 199; sophomore courses from 200 to 299; upper division courses from 300 to 499; graduate courses 500 or above. Courses carrying numbers below 100 are non-credit courses. Courses taken by independent study will carry the prefix D. Honors courses carry the prefix H.

The department code number which is used at registration is listed by the department name.

Freshman and sophomore students are not ordinarily permitted to register for upper division courses.

12. Course Sequence and Related Sequences: Certain 100 and 200-level courses may not be taken for credit by a student after he has completed higher level courses in the same subject area. Also, certain sequences of courses may not be taken for credit after a student has completed parallel courses which are similar in subject matter. Specific applications of this policy are indicated in the numbered course descriptions in the Course Description Section of this catalog. Selection of the courses, as well as exceptions to the policy, is left to the department chairmen.

13. Credit by Examination: The University of Southern Mississippi will allow students to earn credit by examination under one or more of the following programs, for up to a total of thirty-six (36) semester hours.

Credit earned through the use of the examination will be included in the sixty-four (64) hours "Limitation on Transfer of Credits" rule and may not be used to meet the thirty-two (32) on-campus requirement.

a. **College Level Examination Programs: General Examinations;** The University of Southern Mississippi will allow credit examination to those students who have participated in the College Level Examination Program and have achieved a level acceptable to the University. Credit will be restricted to the more mature student. It would be assumed that a mature student would be a student twenty years of age, or older, who has been out of high school for at least two years. It will be the responsibility of the Registrar's Office to determine a person's eligibility to receive credit. A student with any appreciable college credit may not earn credit through the use of this examination. Credit will be granted for successful completion of the subject area examination in the following areas; the optional essay is required for the following subject areas: English Composition, American Literature, English Literature, Analysis Interpretation of Literature, Educational Psychology, and General Psychology.

Test I	English 101 and 102	6 hours
Test II	Social Science (Electives)	6 hours
Test III	Science (FS 104 and 106)	6 hours
Test IV	Mathematics (Elective)	6 hours
Test V	Humanities (Electives)	6 hours

For a total of thirty (30) semester hours.

Credit will be awarded to the student who has achieved at the 33rd percentile on the composite score for the overall battery of tests, and any student who scores below the 25th percentile on any one subject area could not receive credit in that area.

b. **College Level Examination Program: Subject Area Examinations;** A student of any age who has not earned college-level credit in the subject area in which he/she seeks credit can take a CLEP subject-area

examination for advanced placement and college credit. Credit will be awarded to only those students whose scores place them at the 33rd percentile or above at the Freshman Norm. Under this program, students (except for those enrolled in the School of Nursing) are restricted to a maximum of thirty-six (36) semester hours, with not more than six (6) hours or two (2) courses in one subject-matter area. (It is understood that the thirty-six (36) hour-total includes all credit earned by examination.) The adoption of the CLEP standardized examination will preclude the use of departmental examinations except in those areas where CLEP examinations are not available. The Registrar's Office will be charged with the responsibility for determining student's eligibility to earn credit through these examinations.

Additional information, applications, and CLEP Bulletins may be secured from the Office of Admissions, Room 230, Student Services Building.

c. **Advanced Placement Program:** Students from cooperating high schools can earn up to eighteen (18) hours (with no more than six (6) hours or 2 courses in one subject-matter area) through the College Board's Advanced Placement Testing Program. Credit is to be awarded only for grades of 3 and above. The awarding of credit will be administered by the Office of Admissions.

d. **Challenge Examination:** Under the following policy, and with the approval of the Dean of the University, departments may grant credit by examination in lieu of class enrollment, for courses where no CLEP subject area examination is offered.

i. The examination must be given by the department in which the course is offered.
ii. The department chairman must be assured that the student has had some formal or informal learning experience which has prepared him for the examination.
iii. The student must make application to the chairman of the department in which the course is offered. If approval is granted, the student will pay a $10.00 examination fee in the Business Office. The student then presents his receipt to the department chairman who will administer the examination.
iv. If the student passes the examination, a memorandum must be forwarded to the Registrar giving the name of the department, course number, course title, grade, semester hours, and the date the examination was taken and evidence that the examination fee has been paid.

C. GENERAL DEGREE REQUIREMENTS

1. Choice of Catalog: Graduation requirements must be met under a catalog which is not more than six years old at the time of the student's graduation and which carries announcements for a year during which the student earned some credit at the University of Southern Mississippi. A transfer student from a Mississippi junior college may graduate under a catalog which was in force during the time he attended a Mississippi junior college provided the catalog is not more than six years old at the time of the student's graduation.

2. Hour Requirements: An applicant for a degree must complete 128 semester hours, including core requirements and major and minor requirements. Not more than nine (9) semester hours in physical education activity courses, and not more than four (4) semester hours credit in any one varsity sport may be used in meeting total hour requirements for a degree. Courses in dance are excluded from this limitation. Of the total of 128 semester hours, sixty-four (64) must be earned in a senior college, and forty-five (45) of the sixty-four (64) must be in courses numbered 300 or above.

3. Quality Point Requirement: A student must earn a quality point ratio of at least 2.0 (an average grade of C) based on all courses undertaken at the University of Southern Mississippi. Grades in pass-fail courses and off-campus workshops do not carry quality points.

4. Hour and Quality Point Requirements for Pre-Professional Degrees: University of Southern Mississippi students may be allowed to complete degree requirements for the Bachelor of Science or the Bachelor of Arts degree in professional schools of medicine, medical technology, dentistry, or law on the following conditions:

(a) that 92 hours of credit and 184 quality points shall have been completed, with a minimum of three quarters and thirty-two (32) semester hours of residence at the University of Southern Mississippi;
(b) that all core requirements for the degree shall have been completed;
(c) that credit and quality points shall be transferred back to the University of Southern Mississippi from the school of medicine, dentistry, or law to complete requirements for the degree. A minimum of one year's work must be transferred. In any case a minimum of 128 semester hours must be completed before the degree can be awarded;
(d) that the program leading to the degree shall be completed within two calendar years of the termination of the last quarter of residence at the University of Southern Mississippi.

5. Residence Hour Requirements: To become eligible for a degree at the University of Southern Mississippi, a student must meet the following residence requirements:

(a) He must earn at least thirty-two (32) semester hours of credit in residence.
(b) He must do the last quarter of work (twelve [12] semester hours) on the campus at which he intends to receive his degree. Any exception to this regulation must be recommended by the dean of the college or school in which the student is graduating, and must be approved by the Dean of the University.
(c) He must earn at the University of Southern Mississippi at least nine (9) semester hours of credit in his major field.
(d) Military personnel on active duty who are assigned to the University of Southern Mississippi on temporary duty under "Operation Bootstrap" may be permitted to qualify for graduation by completing a minimum of thirty (30) semester hours in residence, provided all other degree requirements are met.
(e) Limitation on Independent Study Courses: A long-standing regulation provides that students will not be permitted to do independent study while in residence. Students not attending the University during the summer quarter are not considered to be in residence and may enroll in independent study courses without prior approval; however, they should consult with their faculty adviser for assistance in course selections. Exceptions to this regulation can only be made with the approval of the appropriate dean and the Dean of the University. If a student takes an independent study course during his last quarter of attendance, he may not register for an independent study course after he leaves the campus with the expectation of completing requirements for his degree.

6. Special Note

Business Administration Residence Requirements

To receive the Bachelor of Science in Business Administration degree

from the School of Business Administration the senior year's work (32 semester hours) must be taken on the Hattiesburg campus.

Of this requirement a sufficient number of hours of senior level courses in the major field must be taken to assure the quality of the degree. The absolute minimum is nine (9) semester hours.

This policy applies to all students, including transfer students from other colleges and universities and those students at USM-Gulf Park and USM-Natchez.

7. General Core Requirements: The purpose of the General Core requirement is two-fold: to give all University students a common cultural experience, and to extend this shared experience over a wide enough range of skills and major disciplines so that the individual student may gain a better perspective of his own special abilities and interests.

It is the purpose of the degree programs in the upper-level colleges and schools to build upon the common core experience in guiding students toward majors and minors which will reflect their individual capacities and life aims.

The General Core requirement, common to all degree programs, is itemized below.

THE GENERAL CORE CURRICULUM

English 101, 102	6
Humanities and Fine Arts	
Honors Center 101, 102, 103	3
Six hours from the following areas: literature, allied arts, foreign language, history, philosophy, religion	6
Social Sciences*	
Nine hours from the following areas with no more than three hours from any one area: economics, geography psychology, sociology, political science	9
Mathematics	3
Science*	6
Physical Education or approved substitute**	2
Total	35

*For recommendations and requirements in these areas, the student should consult the introduction to the appropriate degree-granting college or school. Note also that each college or school has additional requirements for its specific core. In addition each degree-granting college or school has its own requirements for a particular degree. These requirements are designed to give the student the necessary preparation for completing a major and are listed in the Colleges and Schools Section.

**Students are required to take two physical education activity courses during the freshman year unless excused from the requirement by the University physician or the dean of his school or college. Students who complete Military Science I or Aerospace Studies are excused from the physical education requirement. Those participating in varsity athletics, Marching Band, Dixie Darlings, Cheer Leaders, or Pom Pon Girls may substitute this for required physical education. Only one physical education activity course may be taken in any one quarter.

8. Exemption from the General Core Requirements: Students may be exempted from any part of the core requirements for any degree on the basis of satisfactory attainment as demonstrated by previous academic record. The granting of exemption does not involve the bestowal of credit; neither does it reduce the total number of hours to be earned for a degree. Its only effect is to increase the number of electives which the student may include in his degree program.

9. Change of Major within a College or School: Any student wishing to change his major within a college or school must secure the approval of the dean.

10. Change of College or School: Students wishing to transfer from one college or school of the University to another must make application to and be approved by the dean of the college or school they wish to enter.

11. Quality Point Requirement for the Major and Minor: A student must have a quality point average of at least 2.0 (a C) in the major field and in the minor field on courses taken at the University of Southern Mississippi.

A transfer student's work done in the major and minor fields in another institution must average at least 2.0 to be applicable toward the major and minor requirements at the University of Southern Mississippi. If the transferred work does not average at least a C, the student must remove any deficiencies in that part of the major and minor credit being transferred. Transferred deficiencies may be removed by: (a) repeating at the University of Southern Mississippi a sufficient number of courses on which grades of D were transferred and thereby raising the grades in those courses to the level required for a C average, or (b) striking from the transferred transcript courses in the major or minor field with grades of D, and taking additional courses in the major or minor at the upper division level to meet the University's degree requirement.

12. Application for Degree: A student is expected to file an application for a degree at least three quarters before degree requirements are completed and an application will be accepted no later than midterm of the quarter preceding graduation. This application filed with the Registrar will show the work completed by the student and the courses planned for the ensuing quarters. Filing three quarters in advance of the proposed graduation date will allow time for checking the application and also allow the student time for making up any deficiencies found in the degree program. After the application has been approved by the Registrar's Office, it becomes the student's official degree program.

No application for degree will be accepted until the degree fee of twelve dollars ($12.00) has been paid at the Business Office.

13. Approval of Faculty: The names of all applicants for degrees are submitted to a vote of the faculty. If this vote is favorable, the President of the University is authorized by the Board of Trustees to grant the degree.

14. Degrees with Honors: Students with exceptional academic records may be awarded degrees with honors or with highest honors. The residence requirement for such degrees is not less than five (5) quarters with a load of not less than nine (9) semester hours in residence credit each quarter, and totaling not less than fifty-four (54) semester hours of residence credit on the Hattiesburg campus. In computing this residence requirement, one six-week term will be counted as a half quarter when the load is six (6) hours or more. A degree with honors will be granted to a student who maintains a quality-point average of 3.5 or more. A degree with highest honors will be granted to a student who maintains a quality-point average of 3.8 or more.

15. Second Baccalaureate Degree: The University of Southern Mississippi will grant a candidate a second baccalaureate degree based upon requirements of an applicable catalog, provided the program for the second degree includes at least thirty-two (32) semester hours with at least sixty-four (64) quality points. The thirty-two (32) semester hours must be related to a specific major separate from the first degree major; and the thirty-two (32) semester hours must be completed after the first degree requirements are met.

E. MINOR REQUIREMENTS

In addition to the major, each student, where the degree program

so requires, must also choose a minor (or else a second major). He should select his minor in consultation with his academic adviser. A minimum of eighteen (18) semester hours is needed for the minor, with the quality point requirement as noted in paragraph C-10 above. Students who complete the Advanced Course in Military Science (ROTC) are allowed to waive the requirement for an academic minor. The work taken in the major may not apply to the minor.

With certain exceptions, any of the areas of specialization or majors indicated above may be selected for the minor. In choosing a minor, however, the student should be guided by the following policies:

A. A student working for a non-teaching degree must establish a minor (18 hours) chosen from the fields listed above as possible majors with two exceptions:

(1) A student may establish a minor for the non-teaching degree in general science by offering twenty-seven (27) hours from two or more appropriate fields (biology, chemistry, geology, mathematics, and physics), provided he offers at least nine (9) hours from each field he chooses to include.

(2) To establish a minor in any field, a student must earn at least nine (9) hours above the core requirements in that field.

B. A student working for a teaching degree in secondary education necessarily establishes a minor in secondary education.

Since many high schools in Mississippi require teachers to teach in more than one field, it is recommended that students working for secondary education certification plan their electives so as to meet certification requirements in some subject field in addition to their major.

COLLEGES, SCHOOLS, AND DIVISION

George Robert Olliphant Honors Center

University Center for Health Related Sciences

School of Business Administration

College of Education and Psychology

School of Fine Arts

School of Health, Physical Education, and Recreation

School of Home Economics

College of Liberal Arts

School of Nursing

College of Science and Technology

Division of Extension and Public Service

GEORGE ROBERT OLLIPHANT HONORS CENTER (OHC)

William H. Hatcher, Director
Wallace G. Kay, Associate Director
R. Bowers, R. Moorman, Neumann, Tharpe

The George Robert Olliphant Honors Center includes: (1) the Core Supplementation Program, (2) the George Robert Olliphant Honors Program, (3) the Humanities Minor, and (4) the University Lecture Series. The purpose of the Center is to administer these various special programs in the humanities and liberal arts.

I. The Core Supplementation

The Core Supplementation courses (see: Course Descriptions), a one-hour course in each of three areas—humanities, science, and social science—are designed to tie together in a meaningful way the University Core Curriculum. The one-hour, pass-fail courses will feature such things as nationally known speakers in the humanities, science, and social science, the showing of outstanding films, and other core enrichment programs.

II. The George Robert Olliphant University Honors Program

The George Robert Olliphant University Honors Program, currently enrolling over one hundred students, attempts to stimulate and to satisfy the superior student by providing (1) special sections in general education courses required of all students, (2) a four-year Honors Colloquium, (3) opportunity for individual study during the junior and senior year, and (4) a limited number of financial grants.

Honors graduates receive the distinction, written on their diplomas, of being Honors Program Graduates in the departments of their majors. If their academic average is high enough, they also receive the distinction **summa cum laude** (3.8 overall average) or **magna cum laude** (3.5 overall average), based on a 4.0 grade point average as a perfect record of all A's. Requirements for graduation include:

1) A minimum quality point average of 3.0
2) Completion of a senior honors project
3) Passing an honors comprehensive examination in the general area of the major

Basis for Selection

To be eligible for application to the George Robert Olliphant University Honors Program, beginning students must meet the following minimum requirements:

High School Average of 80
American College Test Composite of 25
Personal interview with University Honors Council representatives
A satisfactory extemporaneous essay
Rating by principal and two teachers

Transfer students and other students already enrolled in the University must present a 3.0 overall average to be considered for the program. In addition to the courses listed under Honors Program in the Course Description Section, members of the Honors Program may also take the following courses: Biology H101, H102; Genetics H201; History H102; Political Science H101; English H200, H201, and H202; Sociology H101; Psychology H110.

III. Humanities Minor

Available to any student who needs a minor, and particularly designed for the student who plans a career in college teaching, the humanities minor is a combination of culturally-oriented courses from the classics, literature, science, social science, art, and music. The student selects three hours each from the Center courses in science, classical culture, western literature, art of music, and social science; and completes the twenty-one hour minor with six hours of one foreign language.

IV. University Lecture Series

The University Lecture Series is designed to bring to the campus world renowned speakers to share with students and faculty their thoughts and experiences. The Center plans to sponsor at least one major speaker each quarter.

THE UNIVERSITY CENTER FOR HEALTH RELATED SCIENCES

William G. Brundage, Director

Executive Council: Bain, Glick, McCarthy, Mehearg, Rhodes, Yarbrough

PURPOSES AND RESPONSIBILITIES

The University of Southern Mississippi Center for Health Related Sciences (CHRS) is an innovative educational and clinical complex designed to provide health related services and academic training. Its purposes and responsibilities are:

1. to provide education and training for:
   a. University students seeking degrees in one of the health related fields; and
   b. practicing professionals or paraprofessionals who wish to gain further knowledge or experience in a specific or broad interdisciplinary clinical program on a continuing basis;
2. to provide certain health related services not presently available to the University community, the local community, the State of Mississippi, and surrounding states, and to supplement existing services; and
3. to provide a proper setting for conducting applied and pure research in health related disciplines.

AFFILIATED PROGRAMS

Clinical Psychology. See College of Education and Psychology.

Family Life Services. See School of Home Economics.

Food and Nutrition (Dietetics). See School of Home Economics.

Gerontology. See School of Social Work.

Genetics. See College of Science and Technology.

Health Industries Management Training and Development. See School of Business Administration.

Medical Technology. See College of Science and Technology.

Nursing. See School of Nursing.

Social Work. See School of Social Work.

Speech and Hearing. See College of Liberal Arts.

AFFILIATED HOSPITALS

Ellisville State School, Ellisville, Mississippi
Forrest County General Hospital, Hattiesburg, Mississippi
Memorial Hospital, Gulfport, Mississippi
Methodist Hospital, Hattiesburg, Mississippi
Singing River Hospital, Pascagoula, Mississippi

SCHOOL OF BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean
H. O. Jackson, Assistant Dean

PURPOSE

Rapid technological change, the increasing complexity of society, and the growing role of government in business, economic, and social affairs are placing new requirements on the administrators throughout the country whether they are employed in business, government, or non-profit organizations.

The School of Business Administration is constantly changing the content of its courses and its curricula with the objective that it will assist its students in achieving the proper education to reach their maximum potential after graduation. The young men and women who study in the School are provided with the opportunity for a liberal education as well as professional training. They are prepared to be flexible in their thinking and adaptable to change as well as knowledgeable in their chosen fields. Thus they are given help in preparing not only for careers, but also for satisfactory lives and as constructive citizens.

ORGANIZATION AND OPERATION

Academic Departments

The School of Business Administration is divided into the academic departments of Accounting, Economics, Finance, Management, and Marketing. Each department offers more than one major so a student interested in a particular area should examine the alternative majors to select the one which suits him best.

Whatever major is chosen the student pursues practically the same curriculum except for the major course requirements. Thus, it is possible for a student to change his major, if he has a change in interest, without a loss of time until his senior year. Upon completion of all requirements, he is awarded the degree of Bachelor of Science in Business Administration.

The Department of Economics offers the Bachelor of Arts degree in the College of Liberal Arts as well as the Bachelor of Science in Business Administration.

Office of the Dean

The Office of the Dean of the School of Business Administration is the chief administrative office through which the student will come if he wishes to withdraw from the University, have exceptions made in his academic program, is suspended for academic reasons, or has problems he wishes to discuss.

Under the Dean is the Coordinator of Graduate Studies who accepts and processes all applications for the graduate program.

Bureau Of Business Research

The functions of the Bureau of Business Research are designed to complement the overall program and objectives of the School of Business Administration. Specific functions included are to: provide an administrative framework for research projects; provide a source of support for, and flexibility of approaches to, research by faculty members (including Bureau staff); publish research reports; provide a readily identifiable point of contact for business, industry, and government relative to research and services in the areas of business and

economics; provide for the development and execution of service programs; and maintain a framework to assist in the education and training of students.

STUDENT PROCEDURES

Admission

High school graduates who are interested in the field of business and who are admitted to the University of Southern Mississippi as beginning freshmen will be admitted directly to the School of Business Administration.

Students desiring to transfer from another school or college in the University must be in good academic standing and must bring to the Office of the Dean a transcript. Indication that the student will succeed in his work is necessary.

Transfer students from other four-year colleges or universities are admitted directly to the School upon admission to the University.

Transfer students from junior colleges are especially welcome to the School. A junior college student intending to come to the University should concentrate on completing his requirements as listed below in Basic Curriculum Outside School of Business Administration. He should limit his courses in business to principles of accounting and principles of economics. The School will not accept as meeting curriculum requirements business courses which are taught at the junior college but which are taught here at the junior or senior level. Courses which are designed by the junior college as technical training courses may not be used in meeting degree requirements. It is imperative that the student pay particular attention to the requirements in mathematics.

Advisement

Upon admission to the School, the student is assigned an adviser by the Office of the Dean. His adviser will be his department chairman or someone designated by the chairman who will approve his schedule each quarter, provide counsel when necessary, and sign his application for degree as the first step toward meeting degree requirements.

Continuation

While in the School the student must maintain the quality point average prescribed for his number of hours undertaken as designated under University regulations or face academic suspension. If suspended, the student may make application for reinstatement through forms provided in the Office of the Dean. His application is acted upon by the Reinstatement Committee which reviews these applications the day prior to the registration period of each quarter and interviews those students who are denied reinstatement and wish to appeal.

Graduation Requirements

For graduation the student should file his application for degree two quarters in advance of his anticipated quarter of graduation, and no later than the quarter prior to the graduation quarter. The application form with instructions is to be picked up in the Office of the Dean or the Office of the Registrar. The degree application does not become a formal type of contract with the student for graduation until it has been thoroughly checked for all requirements by the degree clerk of the School in the Registrar's Office and approved by the Dean. Any changes requested on the application after its acceptance must come from the Office of the Dean. See page 54 for special requirements.

To meet graduation requirements the student must meet all requirements of his curriculum and have a 2.0 average overall, in his

major requirements, and in the School of Business Administration. He must have a minimum of fifty-two (52) semester hours in the School of Business Administration as well as a minimum of fifty-two (52) semester hours in the Colleges of Liberal Arts and Science and Technology. Health 101 and courses in psychology may be used toward meeting the last requirement, but military science and physical education activity courses cannot be used. Total hours required for graduation are 128.

Placement

The School cooperates with the University Placement Bureau in assisting its graduates in finding positions. The student is expected to establish a file with the Bureau three quarters before graduation to avail himself of the opportunities to be interviewed or contacted by the many businesses and governmental bodies interested in business graduates.

Student Organizations and Student Assistance

The School promotes several professional and honorary societies for students in order to foster fellowship and scholarship among those with similar interests. These organizations are: Alpha Epsilon Alpha, professional fraternity in accounting; Delta Sigma Pi, professional fraternity for men in all areas of business; Omicron Delta Epsilon, honorary society in economics; Rho Epsilon, professional fraternity in real estate; Society for Advancement of Management, professional fraternity in management; and U.S.M. Chapter-American Marketing Association. Representatives from these fraternities and other students constitute the Business Student Advisory Council which works closely with the Dean in several projects.

There are several scholarships available exclusively for students in the School of Business Administration as well as many others for which business students may apply. Any inquiry should be addressed to: Director of Student Aid and Scholarships, Southern Station, Box 101, Hattiesburg, Mississippi 39401.

BASIC CURRICULUM OUTSIDE SCHOOL OF BUSINESS ADMINISTRATION

The business graduate, though career oriented, must live and work in a changing society which will continually offer him personal and business challenges. Business leaders must have a background which makes them cognizant of the past, articulate in many subjects, and adaptable to change. After much deliberation the faculty of the School has adopted the following courses from the arts and the sciences to give the business student the background upon which he will then add his knowledge of basic business tools and specialized subjects.

It may be observed that the courses include primarily those at the freshman and sophomore level. Unless specified as such the student may choose to substitute junior and senior level courses if they are of particular interest to him.

Courses	Hours
English 101, 102 (Freshman English)	6
Social Science (geography or political science)	3
History (101, 102 or 140, 141 are recommended)	6
*Mathematics 101, 112 (algebra)	6
Public Address 111 (or advanced course)	3
Science (biology, chemistry, fundamentals, geology, physics)	6
Humanities (literature, allied arts, philosophy, foreign language)	9

Behavioral Science (anthropology, psychology, sociology)	6
**Mathematics or Science Elective	3
***Liberal Arts Elective (or Health 101)	3
Physical Education or ROTC/AFROTC or approved substitute	2 or 3
	53 or 54

*Accounting—Data Processing majors will substitute Mathematics 103 and 171. Professional Accountancy and economics majors will substitute Economics 275 for Mathematics 112.
**All majors in accounting must choose mathematics as the elective.
***The advertising major must take JOU 331 and 440.

BASIC CURRICULUM WITHIN THE SCHOOL OF BUSINESS ADMINISTRATION

The following business courses are required of all students in the School regardless of major. They provide the student with his basic business tools which he will use for advanced courses as well as a broad understanding of the entire area of business and of the economy in which business operates.

Courses	Hours
Accounting 201, 202—Principles of Accounting	6
Economics 255, 256—Principles of Economics	6
Finance 290 or CSS 240—Business Data Processing	3
*Finance 295—Business Law I	3
**Accounting 300—Administrative Accounting	3
Marketing 300—Principles of Marketing	3
Economics 301 or CSS 211—Statistics	3
***Economics 302—Statistics II	3
Economics 330—Money and Banking	3
Management 360—Fundamentals of Management	3
Finance 389—Business Finance	3
Management 485—Administrative Policy	3
	42

*Professional Accountancy majors must also take Finance 311, **Business Law II.**
**All accounting majors will delete this course and go directly into Accounting 301.
***Accounting-Data Processing majors will delete this course.

DEPARTMENT OF ACCOUNTING (ACC—605)

Jerold J. Morgan, Chairman
H. Anderson, S. Carpenter, Cummings, Dear, Estes, Jackson, Kenamond, McDuff, Skantz, Torres

Two programs are offered by the Accounting Department. The first is intended to prepare students for professional positions in industry, government or public accounting, and to provide a firm foundation for those students planning to do graduate work in accounting. This program includes all the courses necessary to sit for the certified public accountants examination. The second program is offered jointly with the Department of Computer Science and Statistics, and is directed more specifically to the needs of students who are planning careers in business data processing or accounting systems. The requirements of the two programs are set out below and are entitled "Professional Accountancy" and "Accounting—Data Processing" respectively.

Students wishing to minor in accounting should take the following courses: Accounting 201, 202, 301, 302, and three advanced accounting courses.

Major—Professional Accountancy

	Hours
Accounting 301—Intermediate Accounting I	3
Accounting 302—Intermediate Accounting II	3
Accounting 320—Elementary Cost Accounting	3
Accounting 330—Federal Income Tax I	3
Accounting 401—Advanced Accounting I	3
Accounting 402—Advanced Accounting II	3
Accounting 420—Advanced Cost Accounting and Budgeting	3
Accounting 409—Auditing	3
Accounting 405—Current Accounting Theory and Research	3
Accounting Electives	3

Major—Accounting-Data Processing

	Hours
Accounting courses as listed below:	
Accounting 301—Intermediate Accounting I	3
Accounting 302—Intermediate Accounting II	3
Accounting 320—Elementary Cost Accounting	3
Accounting 330—Federal Income Tax I	3
Accounting 409—Auditing	3
Accounting 450—Accounting Systems	3
Computer Science courses as listed below:	
Computer Science 320—Introduction to Linear Programming Techniques	3
Computer Science 340—Advanced Fortran Programming	3
Computer Science 341—Digital Computer Programming	3
Computer Science 342—Introduction to COBOL Programming	3
Computer Science 460—Computer Software I	3
Computer Science 480—Data Processing and File Management	4

DEPARTMENT OF ECONOMICS (ECO—610)

Jack C. Wimberly, Chairman

Black, Cameron, Cartee, M. Everett, Greene, E. Lewis, Li, McQuiston, Whitesell, D. C. Williams

The major curricula in economics are intended to prepare students for positions as economists in education, business, and government. The recommended minor in economics constitutes a systematic study of the economic environment in which we live. A few advanced courses have been designed to provide appropriate instruction in economics to students in other major fields; and several comprehensive introductory courses may be taken by those who are interested in economics in a less formal way.

The recommended minor in economics outside the School of Business Administration consists of Economics 255, 256, 301, 310, 330, 340, and 345.

Major—Economics (Bachelor of Science Degree)

	Hours
Economics 340—Price Theory	3
Economics 345—Income Theory	3
Economics (Electives)	15

Major—Economics (Bachelor of Arts Degree)

The degree of Bachelor of Arts in Economics is granted by the College of Liberal Arts. The Department of Economics requirements are listed here.

Departmental Requirements

	Hours
Major in Economics*	27
Economics 301—Elementary Statistics I	3
Economics 302—Elementary Statistics II	3
Economics 330—Money and Banking	3
Economics 340—Price Theory	3
Economics 345—Income Theory	3
Economics (Electives)	12

*Students considering graduate work in economics should consult frequently with department advisers and are urged to take some mathematics courses beyond the minimum core requirements.

Major—Latin-American Foreign Trade And Finance

See major in Latin American Foreign Trade and Finance under Latin American Studies in the College of Liberal Arts.

DEPARTMENT OF FINANCE (FIN—615)

William A. Sirmon, Chairman

Brandt, Clements, Dennis, Hamwi, Jordan, King, Nace, West

This department offers major fields of study in three areas: Finance, General Business, and Real Estate and Insurance. The policy of the department is to stress education in the selection and handling of tools for problem-solving, analysis, and decision-making in each of the three areas of study. An approach of this kind is premised on the belief that the best qualification for administering business in the three areas is a mind disciplined to identify and analyze administrative issues and to make decisions at all levels of management.

The offerings in the Finance Department qualify the student for entering administrative training programs of financial and non-financial institutions. It is recommended that finance majors with a special interest in banking take Finance 355, **Problems in Bank Administration,** as well as the first course, Finance 350, **Bank Administration.** Offerings in general business necessarily cut across several segments of the business curriculum including economics, finance, management, and marketing, thus opening the door to a somewhat wider range of job opportunities. Offerings in real estate and insurance are, by contrast, more specialized, being designed essentially for the person interested in selling, risk management, and property and agency management, as they relate to the insurance and real estate industries.

The W. Parham Bridges Chair in Real Estate is in this department and has enabled the department to raise the standards of academic work and to bring about a closer working relationship with the real estate industry in the State of Mississippi.

The student who wishes to further his education may work for the master's degree with an emphasis in finance. This will strengthen his qualifications for higher-level administrative positions in business and will also open new doors to teaching, research, and graduate work at the doctoral level.

The department has a recommended minor for non-business majors which requires Economics 255 and 256, Finance 415, and four electives in Finance.

Major—Finance

	Hours
Finance 325—General Insurance	3
Finance 350—Bank Administration	3
Finance 352—Investment Finance	3
Finance 375—Managerial Communications	3
Finance 462—Security Analysis & Portfolio Planning	3
Finance 472—International Business Finance	3
Finance 480—Financial Management	3
Electives in Department of Finance	6

Major—General Business

	Hours
Major requirements as listed below	27
Economics—Two courses numbered 300 or above	6
Finance—Finance 375 (Managerial Communication) and Finance 480 (Financial Management) and one other 300 or above course	9
Management—Management 364 (Personnel Management) or Management 454 (Human Relations) and one other 300 or above course	6
Marketing—Marketing 428 (Marketing Management) and one other 300 or above course	6

Major—Real Estate and Insurance

Students majoring in real estate and insurance are required to take the two basic courses in real estate and insurance: Finance 325 (General Insurance) and Finance 330 (Real Estate Principles), and Finance 375 (Managerial Communications). Then select a minimum of six courses from the following to complete twenty-seven (27) hours.

	Hours
Finance 325—General Insurance, Finance 330—Real Estate Principles, Finance 375—Managerial Communications	9
Elect minimum of six courses from following eight:	
Finance 425—Life Insurance	3
Finance 426—Introduction to Actuarial Science	3
Finance 430—Real Estate Law	3
Finance 432—Real Estate Finance	3
Finance 434—Real Property Valuation	3
Finance 436—Property Management	3
Finance 445—Property and Liability Insurance	3
Finance 450—Health Insurance	3

DEPARTMENT OF MANAGEMENT (MGT—620)

Martin Stegenga, Chairman

Bracey, J. L. Davis, Gottleber, V. Hill, R. Moore, Sanford, Sweat, Turnage

The program of study in management has three objectives: (1) to provide students with concepts, knowledge, and skills required in the effective management of profit-making enterprises, government institutions, and non-profit service organizations; (2) to prepare the student for employment which will lead to positions of managerial responsibility; and (3) to make available to students pursuing technical, educational, and professional careers training in general management to apply in their specialized fields.

Students interested in management have the option of majoring in either industrial or personnel management. The industrial management option places emphasis on manufacturing and production problems such

as product engineering, manufacturing methods and equipment, plant layout, production planning, and quality control. The personnel management option emphasizes the human problems of administration including union-management relations, manpower development, compensation, and managerial communications.

Careers in management are available in industry, government, service organizations, and teaching. Beginning employment opportunities for which the management graduate is trained include such jobs as line supervisor, production scheduler and dispatcher, time study man, employment interviewer, training supervisor, and management trainees. His broad education and training will, when coupled with additional maturity and experience, serve to further his career in more responsible management positions, such as production or plant manager, labor relations director, or personnel administrator.

The recommended minor in management for a non-business major is Economics 255 and 256, Management 360, and four courses in the Management Department.

Major—Personnel Management

	Hours
Management 364—Personnel Management	3
Management 370—Labor Law and Legislation	3
Management 386—Industrial Safety	3
Finance 375—Managerial Communications	3
Management 454—Human Relations	3
Management 456—Industrial Training	3
Management 468—Wage and Salary Administration	3
Management 472—Collective Bargaining	3
Management 484—Problems in Personnel Administration	3

Major—Industrial Management

Management 362—Fundamentals of Industrial Management	3
Management 386—Industrial Safety	3
Finance 375—Managerial Communications	3
Management 464—Work Methods and Performance Standards	3
Management 466—Production and Quality Control	3
Management 468—Wage and Salary Administration	3
Management 476—Managerial Systems Analysis	3
Management 482—Production Problems Seminar	3

DEPARTMENT OF MARKETING (MKT—625)

Richard C. Vreeland Chairman

Ivy, Schoell, T. Smith, Stevens

There are three basic functions performed by any business organization: marketing, production, and finance. The goal of the Department of Marketing is to train students to fill competently positions as managers of the marketing function. It is necessary, therefore, that the student not only learn the subject of marketing but that he also master certain executive skills, of which ability to think is usually considered the most important. Other attributes of significance are the ability to: (1) solve problems; (2) communicate orally and in writing; (3) understand and work with people.

The context of marketing courses provides the student with a basic knowledge of marketing principles and techniques. The method used in teaching the material enables the student to develop the skills necessary to utilize this knowledge after graduation.

Marketing majors can gain employment in the field of retailing as store managers, buyers, and owners of their own store. Others work as salesmen, market managers, and researchers—after additional graduate training. The specific opportunities number in the hundreds since more than half of all people gainfully employed work in the marketing of goods and service.

For a student not majoring in the School of Business Administration, a minor in marketing can be earned by completing twenty-one (21) hours of courses in the following recommended sequence:

1. Economics 100, and Marketing 300
2. Marketing 330, 342, and 355 (select any two)
3. Marketing 430, 442, or 455 (select one)
4. Any two marketing electives

Students in the department may major in marketing, sales management or advertising by completing one of the following programs:

Major—Marketing

	Hours
Marketing 332—Marketing Problems	3
Marketing 424—Marketing Research	3
Marketing 428—Marketing Management	3
Marketing 430, 442, or 455 (select one)	3
Marketing Electives	12

Major—Advertising

This is an interdisciplinary major offered jointly by the Department of Marketing and the Department of Communication, College of Liberal Arts.

Students majoring in advertising take a more specialized program than the marketing major to prepare them for the exacting requirements of an advertising career. Advertising graduates are employed as account executives, copy writers, promotional managers, and advertising managers for firms in retailing and manufacturing.

	Hours
Marketing 322—Marketing Problems	3
Marketing 342—Principles of Retailing	3
Marketing 355—Principles of Advertising	3
Marketing 365—Consumer Behavior	3
Marketing 424—Marketing Research	3
Marketing 458—Promotion Development	3
Radio-TV-Film 311—Radio Production	3
Radio-TV-Film 330—Broadcast Advertising	3
Radio-TV-Film 440—Television Production	3
Communication 431—Advertising Management and Sales	3

MAJOR—SALES MANAGEMENT

The sales management major is designed to prepare students for professional sales and sales management positions with major manufacturers, wholesalers, and multinational corporations. The course sequence and recommended electives are geared to the skills and knowledge necessary to enter these fields.

COLLEGE OF EDUCATION AND PSYCHOLOGY

Eric M. Gunn, Dean

Walter E. Cooper, Assistant Dean

The University of Southern Mississippi, through its College of Education and Psychology, holds membership in the American Association of Colleges for Teacher Education. All undergraduate programs in teacher education are fully accredited by the National Council for Accreditation of Teacher Education (NCATE). For details of graduate teacher-education programs, consult the **Graduate Bulletin.**

PURPOSES

The purposes of the College of Education and Psychology are: (1) to prepare teachers for the public schools and the colleges and universities; (2) to offer non-teaching degree programs on the undergraduate level in library science, industrial vocational, industrial arts, office management, bilingual secretary studies, executive secretarial studies, psychology and social and rehabilitation services (for graduate level non-teaching degree programs consult the **Graduate Bulletin**); (3) to provide clinical and professional services to the public schools of Mississippi and to the University; and (4) to promote educational and psychological research.

These purposes are achieved through: (1) the work of the various departments in the College; (2) clinics and offices for professional services; (3) cooperation with the public schools; and (4) cooperation with other colleges and schools of the University in the development of teacher-education programs that meet requirements for Mississippi certification and NCATE approval.

ADMISSION REQUIREMENTS

Any student who satisfies admission requirements to the University of Southern Mississippi through the Office of Admissions is eligible for admission to the College of Education and Psychology.

An Application for Admission (Form A7) must be approved by the Dean of the College of Education and Psychology and be filed in this office.

The above criteria for admission applies to beginning freshman students, transfer students from within the University of Southern Mississippi, and transfer students from another college or university.

Admission to the College of Education and Psychology **does not** constitute admission to a teacher education program nor to a non-teaching major program. Program planning and proper advisement must be completed to gain admission to both Teacher Education Programs and Non-Teaching Programs.

Regular status in the College of Education and Psychology is maintained by meeting the quality point requirements for hours completed as designated by the general University requirement and evaluated by the Registrar's Office.

General Core, College of Education and Psychology

All students (teaching and non-teaching) are required to satisfy the requirements of the General Core, College of Education and Psychology. Exceptions must be approved by the department chairman and the Dean of the College.

General Core

	Hours
English 101, 102, and two other English courses 200 level or above	12
History 101 and 102, or 140 and 141	6
Social Sciences	6
Elect two courses from the following for 6 hours: Anthropology, Economics, Geography, Political Science, Sociology	
Science — Biological Science—6 hours; Physical Science—6 hours; (all non-science major may take the Fundamentals of Science series)	12
Mathematics	3
Psychology 110	3
Fine Arts	3
Public Address 111	3
Health 101	3
*Physical Education or ROTC/AFROTC	2
	53

*Students are required to take physical activity courses during the freshman year. Freshman students may elect ROTC/AFROTC I in lieu of the physical education requirement. Students participating in varsity athletics, marching band, Dixie Darlings, Cheer Leaders, or Pom Pon girls may substitute this for required physical education. Persons with military experience and holders of AA degrees are exempt from physical education activity courses.

TEACHER-EDUCATION PROGRAMS AND REQUIREMENTS

One of the primary functions of the College of Education and Psychology is that of coordinating the teacher education programs for the University. The following objectives were formulated to carry out adequately this function:

1. Attract those students who desire to make teaching a career.
2. Acquaint prospective teachers with all phases of the profession through the tutelage of a competent college staff.
3. Provide programs of basic studies and preteaching activities which will insure a minimally acceptable level of teaching knowledge and skill in an area of specialization within each student.
4. Make available to students the educational resources and support services needed to complement their instructional program.
5. Maintain a continuous counseling service which will help to guide students in the proper selection of courses for their personal and professional development.
6. Sustain an orderly system of selecting and retaining those individuals who perform at or above those standards required by the Teacher Education Council.
7. Encourage both instructors and students in the various classes to visit and observe local schools in day-to-day operations.
8. Study, screen, and assign students to school classrooms where qualified teachers can provide certain pre-teaching experiences.
9. Aid students in obtaining state certification in their area or areas of specialization.

10. Help students make appropriate career decisions.
11. Provide prospective employers with proper information regarding the student's performance at the University.
12. Utilize a system of follow-up on each student's performance as a classroom teacher.
13. Make staff members available to local school inservice programs which are designed especially for staff and/or curriculum improvement.

Criteria for Admission to Teacher Education Programs

All applicants for admission to a program leading to teacher education certification must be approved by the **Screening Committee.**

Freshmen and sophomores who have indicated a desire to pursue a Teacher Education Program will be notified at the proper time for filing the Program-Plan Teaching Form.

Application for admission to a teacher education program is accomplished by:

1. Obtaining the Program Plan-Teaching Form (Ed 8a) from the College of Education and Psychology Dean's Office.
2. Filling out this form properly with the major adviser and help of an education adviser.
3. Having this form checked and turned in to the designated adviser in the Department of Curriculum and Instruction.
4. Having the Curriculum and Instruction adviser forward the Program Plan-Teaching to the Dean's Office, College of Education and Psychology.

On receiving the required forms the Dean's Office will initiate a file on the student.

Once this sequence is accomplished successfully, a T.E. should be evidenced each quarter on the Registration Appointment Form. This symbol indicates to all advisers involved that an approved program plan for teaching certification has been checked and filed in the College of Education and Psychology Dean's Office.

Criteria which must be met for tentative approval include the following:

1. An overall 2.0 grade point average.
2. At least a C average in first year English. (If this is not met, English 332 is required.)
3. Acceptable physical health status.
4. Emotional stability.
5. Satisfactory personal characteristics.
6. Never have been convicted of a felony.

The above criteria are rated (yes, no, or doubtful) on the initial interview by the education adviser. Each applicant whose credentials satisfy the above criteria for general screening will be referred to the selected major department sub-committee for additional screening. A computer listing of all students working toward teacher certification (compiled by utilizing the T. E. symbol on the Registration Appointment Form) is sent twice a year to each major department involved in teacher education programs. The departmental sub-committee either endorses these students or may refer, in writing, any student to the Screening Committee for further screening action. Thus the screening procedure is a continual process throughout a student's program. The decision of the sub-committee will be reported to the Screening Committee.

The Screening Committee will give final approval or disapproval of the applicant to pursue a teacher education program and notify the

department chairman. If an applicant is not approved or is screened out at any point, an appeal may be made to the Screening Committee for further evaluation.

Teaching Certification

Students preparing to teach must choose a teaching area from one of the following:

Nursery—Early Childhood (N,K-3)
Early Childhood Education (K-3)
Middle Grades (4-8)
Comprehensive Elementary Education (K-8)
Secondary Education (High School)
Special Areas

To prepare for a career in secondary education the student will major in an academic area and fulfill the general and professional requirements listed under the Secondary Education Section (see Department of Curriculum and Instructions).

Requirements for Teaching Degrees

The student preparing to teach will normally pursue the Bachelor of Science degree which is offered in the College of Education and Psychology. It is permissible for a student to graduate from any school that offers a teaching major if the student so prefers. However, all students who desire to become teachers must apply for admission to the Teacher Education Program in the College of Education and Psychology and be screened according to the preceding procedure for admission to the program.

The requirements of the College of Education and Psychology consist of courses essential to certification and institutional endorsement. These requirements vary for elementary and secondary education degree candidates. **The National Teachers Examinations are required of all candidates for the teaching degree.**

Requirements for Non-Teaching Degrees

The College of Education and Psychology offers major programs in psychology, library science, office management, executive secretarial studies, bilingual secretarial studies, social and rehabilitation services, and industrial vocational areas leading to the Bachelor of Science non-teaching degree. Students in psychology and library science may take programs leading to the Bachelor of Arts degree.

Bachelor of Arts (Non-Teaching)

The requirements for the Bachelor of Arts non-teaching degree are the same as those for the Bachelor of Science non-teaching degree with one exception. Students in the Bachelor of Arts program must complete six (6) to nine (9) hours in a foreign language. Those students who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six (6) semester hours in the same language at the 200 level or above.

Major Requirements and Electives

Students should consult with their major departments concerning the major and/or minor requirements and electives which constitute the balance of the degree requirements.

SPECIAL SCHOOL SERVICES

Educational Media Center

Lee W. Jones, Director
Hand, Shaffer, R. P. Thomas, Wolf

To serve better the schools of Mississippi and to provide higher standards of teacher education and campus instructional services, the University has established the Educational Media Center. The Center administers a regional film library, campus educational television, graphic and audiovisual services, as well as teacher education laboratories for curriculum materials, teaching the use of audiovisual equipment, and the production of instructional materials of all kinds.

The Educational Media Center carries out a multiphased service program of instructional development, media production, and research which is designed to function cooperatively with all areas of the University community. The Center's staff of media specialists is available to assist local school districts with faculty in-service workshops, surveys, consulting services, and with the design and development of instructional systems for individual instruction, ungraded schools, and adult education.

The curriculum plan encompasses graduate and undergraduate offerings. Basic courses are designed to provide an overview for prospective teachers, while graduate courses are designed to supplement existing programs and to provide a nucleus for individuals with a strong interest in media at the graduate level.

The University Film Library serves members of the South Mississippi Educational Film Association, and it rents films to non-member schools at a minimum rental charge. This cooperative film library has served the schools of South Mississippi for 25 years, and it is continuing to upgrade and expand its offerings in all fields. School administrators may obtain film catalogues and staff services by writing to:

The Director
Educational Media Center
Southern Station, Box 54
Hattiesburg, Mississippi 39401

Psychology Clinic

L. Erl Mehearg, Director

The University of Southern Mississippi, through the Psychological Clinic, affords graduate students in psychology opportunities for clinical experience in a psychology practicum setting. Training and experience in diagnostic testing, psychological appraisal, psychotherapy, and behavior modification techniques are the primary foci of the Clinic's function. Work with both children and adults provides doctoral level graduate students specializing in the clinical area with a variety of experiences with different forms of maladaptive behavior and learning problems.

Another major function of the Clinic is to provide psychological services to University students. Additionally, service to the community and to the state in the form of diagnosis and treatment of emotional and learning problems is an important function of the Clinic.

Members of the Clinic's staff and the Psychology Department offer consultation to other clinics on the campus and work with them on various related problems.

University students, faculty and staff personnel, public school teachers, physicians, and other interested persons may obtain psychological services by applying to the Clinic.

In ALL cases, student clinicians are closely supervised by experienced clinical personnel.

The Reading Center

George H. McNinch, Director

The Reading Center's primary concern is that of educating teachers in methods, techniques, materials, and equipment for the effective teaching of reading. Additional functions include the training of graduate students for reading specialization in developmental or diagnostic and remedial reading. The Center is able to offer limited services in diagnosis of reading problems and remedial reading to children referred to the Center. The cost of the diagnostic evaluation which includes a suggested program of remedial procedures is $20.00, or a proportionate part, based on ability to pay. Remedial instruction, on a limited basis, is $25.00 per quarter.

Consultant services are available to schools throughout the state. An up-to-date collection of materials used for reading instruction and a library of children's books are open for examination.

University students and adults may obtain testing, counseling, and special reading instruction by applying at the Center. The type of instruction offered will depend upon the type of help needed and the availability of instruction at the time of application. University students can also receive instruction in the reading areas of comprehension, vocabulary development, and study skills improvement through enrolling in the Center's "Improvement of Study" course.

An annual reading conference is held in June. Nationally known reading authorities are featured on the program.

Bureau of Educational Research

Richard Kazelskis, Director

The Bureau of Educational Research is an administrative entity of the Office of the Dean, College of Education and Psychology, at the University of Southern Mississippi. The primary purpose of the Bureau is to provide research and dissemination services to University students, faculty, and the public schools within the State of Mississippi. Major functions include technical assistance in research design and data analysis, coordination of faculty research, reporting of research and professional activities of faculty and students, and independent evaluation of special projects and programs within the College of Education and Psychology.

The Bureau has developed a system of computer programs available for the treatment and analysis of data and provides training and assistance in the utilization of electronic calculators for more limited data treatment requirements. In addition, special services relative to measurement instruments and other specialized research tools are provided.

Additional information may be obtained by contacting the Director of the Bureau of Educational Research.

Career and Personal Development Center

Jack L. Daniels, Director

The Career and Personal Development Center, in the Department of Counseling and Guidance, is designed to assist individuals whose problems fall within the realms of educational planning, school placement, academic exploration, vocational or career decision-making, and personal-social adjustment. It serves two purposes: (1) to offer professional service to persons seeking such services, and (2) to provide qualified graduate students the opportunity to observe and apply theoretical concepts.

The Center is available to anyone of any age, students or general public, whose problems fall into the scope of the services outlined

above. These services are not restricted to any particular area nor to any particular group.

The staff of the Career and Personal Development Center is composed of members of the teaching faculty of the Department of Counseling and Guidance and graduate students under their supervision. The Center has been evaluated and approved by the International Association of Counseling Services, Inc.

Write, telephone, or contact in person:
Dr. Jack L. Daniels, Director
Career and Personal Development Center
Southern Station, Box 5327
Hattiesburg, MS 39401
Phone: 266-7151 or 7163

Early Childhood Education Laboratory School

Mary Ellen James, Director

The Children's Laboratory of Learning offers a half-day program to kindergarteners and an all-day program to first graders. The Laboratory School is a part of the Curriculum and Instruction Department of the College of Education and Psychology, and its functions as a site for graduate and undergraduate teacher training in methods and materials used in Early Childhood Education. The Laboratory School also functions as a site for adjunct services offered in the Speech and Hearing Clinic, Special Education Department, Physical Education Department, and other colleges and schools within the University.

Staff members are available for consultant services, in-service workshops, and off-campus courses.

Speech and Hearing Clinic

Robert C. Rhodes, Director

The Speech and Hearing Clinic is operated by the Department of Speech and Hearing Sciences in the College of Liberal Arts, but it works with the College of Education and Psychology in the preparation of Special Education teachers. The Clinic is located in the Honor House.

This Clinic has a dual function. It provides facilities for the training of specialists in the area of clinical speech, audiology, and language disorders, and provides clinical services for persons with speech, hearing, and language problems.

The Clinic's services include diagnostic examinations and therapy programs for both children and adults who have speech or hearing problems. These services are available to both University students and members of the community at nominal fees.

Speech and Hearing Clinic Services:

Audiometric Pure Tone Test	$ 5.00
Diagnostic Hearing Evaluation	10.00
Hearing Aid Evaluation	15.00
Hearing Evaluation for Medical-Legal Compensation Claims	25.00
Diagnostic Speech Evaluation	10.00
Speech or Hearing Therapy fees per session	2.00
Therapy fees for University students per quarter	5.00

School For Children With Language Disorders

N. Etoile DuBard, Director

The School for Children with Language Disorders is administered by the Department of Speech and Hearing Sciences and is housed in the George Hurst Building. It functions as a laboratory school for children with language disorders related to deafness, childhood aphasia or dyslexia. They may be enrolled on a full-time, part-time or out-client basis for supportive instruction, depending upon the child's needs and the

availability of teaching personnel and space. Diagnostic services for children exhibiting difficulties in language or learning are available.

Financial support is provided by the United Giver's Fund of Forrest County and the State Department of Education in addition to tuition and fees.

Students who have completed specific prescribed course work may obtain clinical hours for practicum and/or academic credit in the school. Stipends are sometimes available for students qualifying for work in the school.

DEPARTMENT OF BUSINESS EDUCATION (BED—105)

L. Annelle Bonner, Chairman

M. Borthwick, D. Conerly, S. Green, C. Lewis, G. Taylor

The Department of Business Education offers curricula in business teacher education, office management, two four-year programs in executive secretarial studies, and a two-year program leading to a specialized certificate in secretarial training.

The student who plans to teach business subjects on the high school level will follow the curriculum prescriptions which lead to the Bachelor of Science teaching degree. He will enroll in the College of Education and Psychology. He must meet the admission requirements for the College. His major field of concentration will be in business subject matter prescribed by the Department of Business Education. The professional education and psychology requirements constitute the minor.

A student interested in becoming a legal or a medical secretary can get increased emphasis in the professional field chosen through consultation with an adviser who will make necessary minor changes in the Executive Secretarial Studies program.

The recommended minor in secretarial studies is nine (9) hours in typewriting, nine (9) hours in shorthand, and nine (9) hours in advanced business education courses. A year of typewriting and a year of shorthand taken in high school will reduce the number of recommended hours to twenty (20).

To complete the curriculum requirements in business teacher education, executive secretarial studies, or secretarial training, one course in typewriting and one course in shorthand must be taken at the University of Southern Mississippi.

A student with one year of typewriting in high school cannot get credit for BED 101, and a student with one year of shorthand in high school cannot get credit for BED 201. A student who has had more work than this in either or both fields should consult with the chairman of the Department of Business Education about the appropriate beginning courses for his program.

BUSINESS TEACHER EDUCATION

	Hours
COLLEGE OF EDUCATION AND PSYCHOLOGY	
GENERAL CORE REQUIREMENTS	53
Professional Education and Psychology	27
(Refer to Secondary Education Professional Requirements)	
These courses constitute the minor in business teacher education.	
The special method course in CIS 451.	
Departmental Subject Matter Requirements	55
BED 102, 310; BED 202, 305, 471, 472; ACC 201, 202, 300; BED 300, 352, 354, 485, 450, 452, 453, 460; ECO 256; FIN 295. Business skills courses taken in high school will reduce the total number of hours required for the major.	

Electives to complete a total of 135 hours (Recommended courses are CGE 101, BED 480, CIF 416, CSS 240, ECO 330, FIN 389, MGT 360, MKT 300) .....

135

OFFICE MANAGEMENT

	Hours
COLLEGE OF EDUCATION AND PSYCHOLOGY GENERAL CORE REQUIREMENTS ..... With these exceptions: Students majoring in Office Management are required to take ECO 255, 256, and one elective from Sociology 103 or 210, Geography 103, or Political Science 101. Students majoring in Office Management are only required to take nine (9) hours of science, but they must take six (6) semester hours of mathematics from MAT 100; and 101 or 112.	53
Major Requirements	67
*Business Education 102, 310, and 354—Typewriting	8
Business Education 300—Business Writing	3
Business Education 352—Filing Systems and Records Management	2
Business Education 450—Office Appliances	3
Business Education 460—Office Management	3
Business Education 480—Research and Report Writing	3
Business Education 485—Office Practice and Procedures	3
Accounting 201, 202, and 300	9
Marketing 300—Principles of Marketing	3
Finance 295, 311—Business Law, and 389—Business Finance	9
Economics 330—Money and Banking	3
Management 360—Principles of Management; 362—Fundamentals of Industrial Management; 364—Personnel Management; 454—Human Relations; and 464—Work Methods and Performance Standards	15
Psychology 251—Applied Psychology	3

*See note below relative to business skills courses.

Electives to total 128 hours (Recommended courses are CGE 101, ECO 301, CSS 211, CIF 334, FIN 100, SOC 101) .....

128

EXECUTIVE SECRETARIAL STUDIES

	Hours
COLLEGE OF EDUCATION AND PSYCHOLOGY GENERAL CORE REQUIREMENTS ..... With these exceptions: Students majoring in Executive Secretarial Studies are required to take ECO 255, 256, and one elective from Sociology 103 or 210, Geography 103, or Political Science 101. They must take three semester hours from MAT 100; 101 or 112. They are only required to take nine (9) hours of science.	53
Major Requirements	61
*Business Education 102, 310, and 354—Typewriting	8
*Business Education 202, 305, 471, 472—Shorthand	12
Business Education 300—Business Writing	3
Business Education 352—Filing Systems and Records Management	2
Business Education 450—Office Appliances	3
Business Education 460—Office Management	3
Business Education 480—Research and Report Writing	3
Business Education 485—Office Practice and Procedures....	3
Accounting 201, 202, and 300	9

Marketing 300—Principles of Marketing	3
Finance 295, 311—Business Law; 389—Business Finance	9
Economics 330—Money and Banking	3

*Business skills courses taken in high school will reduce the total number of hours required for the major. Hours thus saved may be applied to these recommended courses: Finance 100—Introduction to Business; Psychology 251—Applied Psychology; Sociology 100—Introduction to Sociology; CGE 101—Foundations of Personal Development; CIF 334—Improvement of Study; CSS 210—Introduction to Programming Laboratory.

Electives to total 128 hours	
	128

BILINGUAL EXECUTIVE SECRETARIAL STUDIES

	Hours
COLLEGE OF EDUCATION AND PSYCHOLOGY	
GENERAL CORE REQUIREMENTS	53
With these exceptions: Students majoring in the Bilingual Executive Secretarial Studies program must take nine (9) hours of social science—ECO 255, 256, and either Geography 303 or 304. They may take Public Address 111 **or** 210. Art Education 207 is required as the fine arts course. They are only required to take nine (9) hours of science.	
Major Requirements	64
Business Education 101, 102, 310, 354—Typewriting	11
Business Education 201, 202, 305, 471, 472—Shorthand	15
Business Education 300—Business Writing	3
Business Education 352—Filing Systems and Records Management	2
Business Education 450—Office Appliances	3
Business Education 460—Office Management	3
Business Education 480—Research and Report Writing	3
Business Education 485—Office Practice and Procedures	3
Accounting 201 and 202	6
Finance 295—Business Law; 389—Business Finance; 472—International Business Finance	9
Economics 330—Money and Banking; 413—The Economy of Latin America	6
Major requirements in Spanish (minimum)	28
	145

Guidance for this major is provided in Department of Foreign Languages.

Business skills courses and Spanish taken in high school will reduce the total number of hours required for the majors. Hours thus saved may be applied to these recommended courses: FIN 100—Introduction to Business; CGE 101—Foundations of Personal Development; ACC 300—Administrative Accounting; other humanities and fine arts and social science courses listed in Core Requirements.

One academic quarter of this four-year program may be taken during the senior year in a foreign country at a university or institute approved by the University of Southern Mississippi.

SECRETARIAL TRAINING

The two-year program in secretarial studies is a terminal program for students who wish to prepare for secretarial employment but who do not wish to pursue a baccalaureate degree. The program leads to a specialized certificate in secretarial training. Required courses are shown below.

	Hours	
Required General Courses		20
English 101, 102, and one intermediate English	9	
Public Address 111—Oral Communication	3	
Mathematics 100—Basic Mathematics, or Algebra 101	3	
Physical Education	2	
Social Studies—Political Science 101, History 101, 102, Sociology 101, Geography 103, or Psychology 110 (Select one)	3	
Required Business Courses as listed below		46
*Business Education 102, 310, and 354—Typewriting	8	
*Business Education 202, 305, 471, and 472—Shorthand	12	
Business Education 300—Business Writing	3	
Business Education 352—Filing Systems and Records Management	2	
Business Education 450—Office Appliances	3	
Business Education 460—Office Management	3	
Business Education 485—Office Practice and Procedures	3	
Accounting 201 and 202—Principles of Accounting	6	
Economics 255—Principles of Economics	3	
Finance 295—Business Law	3	
Electives (if needed)		
		66

*A student who has had one year of typewriting in high school will start his program with BED 102; one who has had a year of shorthand in high school, with BED 202. The hours saved are to be used on the following courses: FIN 100, ECO 256, ACC 300, CIF 334, CGE 101, BED 480, or the social studies listed in the core requirements.

DEPARTMENT OF COUNSELING AND GUIDANCE (CGE—140)

John D. Alcorn, Chairman

Boroughs, Culberson, Daniels, Durkee, Gutsch, Kelly, Langdon, Massey, Probst, Randolph, Shafer, Sitzman

The Department of Counseling and Guidance offers both graduate and undergraduate programs. At the graduate level separate curricula are offered in four areas of counseling and guidance work. These are: (1) school counseling and guidance; (2) college counseling and student personnel work; (3) community agency counseling; and (4) counselor education and supervision. See the **Graduate Bulletin** for course patterns of each curriculum mentioned. The department offers work leading to the Master of Education in School Counseling; the Master of Science in College Counseling and in Community Counseling; the Specialist in Counseling and Guidance; the Doctor of Philosophy and Doctor of Education in Counseling and Guidance. The course pattern included in the Master of Education program in School Counseling will meet Mississippi State Department of Education's academic requirements for certification as a school counselor.

The undergraduate curriculum provides an inter-departmental major in Social and Rehabilitation Services. The program offers pre-professional training for those students planning to enter graduate work in counseling or a related helping specialty, and/or terminal preparation for positions in agencies or institutions providing educative, social, or rehabilitation services. Other undergraduate courses are offered as introductions to aspects of counseling and guidance work and may be used as electives subject to the approval of program advisers in the respective departments.

The general requirements for a major in Social and Rehabilitation

Services consists of the General Core of the College of Education and Psychology outlined under **Curricular Requirements For Non-Teaching Degrees on page 75.** The major in Social and Rehabilitation Services is designed so that a student entering from other colleges with the core requirements completed can complete the sequence within six to seven quarters. A major in Social and Rehabilitation Services requires sixty (60) hours in an interdepartmental major; the major includes thirty (30) semester hours in CGE courses plus a minimum of eighteen (18) additional hours beyond the core requirements in sociology and psychology; and three (3) hours in each of the areas of special education, industrial education, management, and business education. An additional twenty-three (23) hours of electives complete the degree program of 136 semester hours.

SOCIAL AND REHABILITATION SERVICES MAJOR

Major Requirements		60
Departmental Courses	30	
CGE 310, 311, 312, 360, 361, 413, 430, 431, 432, 462		
Sociology (excluding introductory course)	9	
Psychology (excluding introductory course)	9	
Business Education	3	
Industrial Education	3	
Special Education	3	
Management	3	
Electives		23

DEPARTMENT OF CURRICULUM AND INSTRUCTION

Paul W. Peddicord, Chairman

N. Hugh Frugé, Coordinator, Elementary Education
Herschel Q. Peddicord, Coordinator, Secondary Education
Bonnie J. Davis, Coordinator, Pre-Professional Programs

Allen, P. Borthwick, C. Campbell, Carmichael, Cunningham, J. C. Davis, James, McNinch, L. Miller, W. Miller, Mottley, Nielsen, Noble, L. Posey, Rains, Richmond

JOINT ASSIGNMENT WITH OTHER DEPARTMENTS: O'Hare, English; F. Brown, Science Education; Fowler and George, Communication; Dunigan and R. W. King, Mathematics; Hunter, Industrial and Vocational Education; Talley, Health, Physical Education, and Recreation; Thornton, Foreign Languages; Slater, Art Education; Bonner, Business Education; P. Kalisch, Social Studies

Serving as the coordinating agency within the University for the training and preparation of elementary and secondary teachers, the Department of Curriculum and Instruction provides undergraduate and graduate work for both preservice and inservice teachers. A description of the undergraduate programs in elementary and secondary education follows. Please consult the **Graduate Bulletin** for a description of the programs leading to master's, specialist's and doctor's degrees.

ELEMENTARY EDUCATION

Students desiring certification at the elementary school level must fulfill the requirements for one or more of the following four programs: (1) **Nursery-Early Childhood Education** (nursery school through grade three), (2) **Early Childhood Education** (kindergarten through grade three), (3) **Middle Grades** (grades four through eight), and (4) **Comprehensive Elementary Education** (kindergarten through grade eight).

A modified program is available for elementary education majors

who wish to obtain basic certification in the middle grades (4-8) as well as additional certification in one or more teaching areas at the secondary-school level (7-12). Although the basic requirements for this program are shown in the sections which follow, interested students should contact the Coordinator of Elementary Education for further information.

General Core: The General Core for elementary education majors parallels the General Core for the College of Education and Psychology. Regardless of the program(s) being pursued, all elementary school majors must complete the courses outlined under this section as well as the section entitled **Common Professional Education Requirements.**

	Hours
English 101, 102 and two (2) other English courses 200 level or above	12
History 101 and 102 or 140 and 141	6
Social Sciences	6
Elect two of the following: Political Science 101, Sociology 101, Geography 103, Economics 200, Anthropology 212.	
Science	12
Six hours of physical science and six hours of biological science are recommended although three hours in either area with nine hours in the other area are acceptable. Fundamentals of Science 131, 132, 133, and 134 are acceptable.	
Psychology 110	3
Mathematics 210	3
Public Address 111	3
Health 101	3
Art Education 207	3
Physical Education or ROTC/AFROTC	2
Total	53

Common Professional Education Requirements

	Hours
MAT 310—Mathematics for Elementary Teachers II	3
EPY 374—Educational Psychology	3
CIE 309—Developing Skills in Reading	3
MED 361—Music for Elementary Teachers I	3
CIE 306—Language Arts in the Elementary School	3
CIE 317—Methods and Materials in Children's Literature	3
CIF 300—Public Education in the United States	3
CIF 416—Audiovisual Education	3
CIF 469—Tests and Measurements	3
CIE 301—Methods and Materials in Arithmetic	3
Total	30

Special Professional Education Requirements (N, K-3)

Those students desiring to teach in nursery school through grade three will also complete the courses under this section.

	Hours
CD 350—Child Development	3
CD 351—Home and Preschool Relationships	3
F&N 362—Nutrition	3
CIE 311—Kindergarten and Primary Reading Instruction	3
CIE 412—Diagnosis and Remediation of Reading Disability for the Classroom Teacher	3
CIE 403—Kindergarten-Primary Education	3
SCE 432—Science for Elementary Teachers	3
EPY 370—Human Growth and Development, Part I: Child	3
*CIE 480—Student Teaching in Lower Elementary	9

CIE 425—Methods and Materials in Early Childhood Education....	3
Total	36
Electives	9

*Must be done below first grade.

Special Professional Education Requirements (K-3)

Those students desiring to teach in kindergarten through grade three will also complete the courses under this section.

	Hours
CD 350—Child Development	3
CIE 311—Kindergarten and Primary Reading Instruction	3
CIE 412—Diagnosis and Remediation of Reading Disability for the Classroom Teacher	3
CIE 403—Kindergarten-Primary Education	3
SCE 432—Science for Elementary Teachers	3
ARE 309—Elementary School Art	3
MED 362—Music for Elementary Teachers II	3
CIE 305—Social Studies in the Elementary Grades	3
EPY 370—Human Growth and Development, Part I: Child	3
CIE 480—Student Teaching in Lower Elementary	9
CIE 425—Methods and Materials in Early Childhood Education	3
Total	39
Electives	6

Special Professional Education Requirements (4-8)

Those students desiring to teach in grades four through eight will also complete the courses listed below.

	Hours
CIE 312—Middle School Reading Instruction	3
CIE 412—Diagnosis and Remediation of Reading Disability for the Classroom Teacher	3
ARE 309—Elementary School Art	3
MED 362—Music for Elementary Teachers II	3
SCE 432—Science for Elementary Teachers	3
CIE 305—Social Studies in the Elementary Grades	3
EPY 370—Human Growth and Development, Part I: Child	3
CIE 482—Student Teaching in Upper Elementary Education	9
CIE 343—Methods and Materials in Elementary Education	3
Total	33
Electives	12

Students who wish to obtain basic certification in the middle grades (4-8) as well as additional certification in a teaching area at the secondary school level (7-12) should complete the **General Core,** the **Common Professional Education Requirements,** and the courses listed below:

	Hours
CIE 312—Middle School Reading Instruction	3
CIS 451-459, 462, 465, (special methods course)	3
EPY 372—Human Growth and Development, Part II: Adolescent	3
CIE 482—Student Teaching in Upper Elementary	9
CIE 343—Methods and Materials in Elementary Education	3
CIS 313—Principles of Teaching in High School	3
Subject area courses necessary for obtaining certification in a teaching field for grades 7-12	12 to 33
Total	36 to 57

Electives (The number of semester hours available for electives will depend upon the secondary-school teaching area chosen.)

Special Professional Education Requirements (K-8)

Those students desiring to teach in kindergarten through grade eight will also complete the courses under this section.

	Hours
CD 350—Child Development	3
CIE 311—Kindergarten and Primary Reading Instruction	3
CIE 312—Middle School Reading Instruction	3
CIE 412—Diagnosis and Remediation of Reading Disability for the Classroom Teacher	3
CIE 403—Kindergarten-Primary Education	3
SCE 432—Science for Elementary Teachers	3
ARE 309—Elementary School Art	3
MED 362—Music for Elementary Teachers II	3
EPY 370—Human Growth and Development, Part I: Child	3
CIE 305—Social Studies in the Elementary Grades	3
CIE 480 and 425—Student Teaching in Lower Elementary and Methods and Materials in Early Childhood Education	12
(OR)	
CIE 482 and 343—Student Teaching in Upper Elementary and Methods and Materials in Early Childhood Education	12
Total	42
Electives	3

Areas of Concentration for Certification

Students enrolled in the **Nursery-Early Childhood** and **Early Childhood** programs are required to acquire one area of concentration. An area of concentration in **reading** is included in these two programs; therefore, no additional concentrations are required.

Students enrolled in the **Middle Grades** and **Comprehensive Elementary Education programs** are required to have two areas of concentration. An area of concentration in **reading** is included in these two programs; therefore, students are required to obtain a second area of concentration from those listed below.

Students enrolled in the modified **Middle Grades** program in which additional certification is to be obtained in one or more teaching areas at the secondary-school level are required to obtain two areas of concentration from those listed below.

Areas of Concentration: Recommended Courses

		Total Hours Required
Reading	CIE 412	12
Social Studies	Two social science courses	18
Science	SCE 453, 454, 455	18
English	ENG 401 and one upper-level course	18
Mathematics	MAT 410, 341	12
Library Science	LS 301, 415, 416, 427, 462	15
Speech	PA 210, 310; SHS 201, 202, 211, 401.	12
Art	AA 100; ART 101, 111; ARE 310	15
Music	MUS 101, 102; MED 311	12
Health and PE	HTH 210, 311, 410; PE 284, 320, 321.	15
Exceptional Children		
Mental Retardation	SPE 400, 402, 411, 440, 441	15
Learning Disabilities	SPE 400, 402, 411, 430, 431	15

SECONDARY TEACHER EDUCATION PROGRAMS (Grades 7-12)

To qualify for an undergraduate degree with certification to teach at the secondary-school level, the student must complete: (1) the requirements of the General Core, College of Education and Psychology, (2) an academic major in a teaching field, (3) the Professional Education Requirements, and (4) any elective requirements necessary to

complete the degree program. The requirements of these components are described below.

General Core, College of Education and Psychology

Students seeking certification at the secondary-school level must complete the general education requirement listed under the General Core, College of Education and Psychology, page 73.

Academic Major

Students seeking certification at the secondary-school level must complete the requirements for an academic major in a teaching field. Academic majors offered for certification in the various teaching fields at the secondary-school level are:

American Studies*
Biology**
Business Education
Chemistry**
Economics*
English
French
General Speech Education
Geography*
German
History*
Home Economics
Industrial Arts
Journalism
Mathematics
Physics**
Political Science*
Psychology
Science Education**
Social Studies*
Sociology*
Spanish

*Students who plan to teach social studies at the secondary-school level should select the social studies major which provides for a broad preparation in the social sciences and certifies the student to teach all of the social sciences at the secondary-school level. Specific certification in American studies, economics, geography, history, political science, or sociology is not available in Mississippi; however, these majors may receive certification in social studies to teach all of the social sciences if their degree program includes the following courses: world history (6 semester hours), American History (6 semester hours), Mississippi History (3 semester hours), economics (6 semester hours), political science (6 semester hours), geography (6 semester hours), and sociology (3 semester hours).

**Students who plan to teach science at the secondary-school level should select the general science education major which certifies the student to teach one or more sciences and general science. Students who desire to major and certify in one science area only (biology, chemistry, or physics) must have the approval of the chairman of the Department of Science Education.

Students should refer to their academic major department for specific requirements for an academic major in their field.

Professional Education Requirements

Students who plan to teach at the secondary-school level must complete the following courses which serve as the student's minor: CIF 300, **Public Education in the United States** (3 hours); EPY 372, **Human Growth and Development, Part II: Adolescent** (3 hours); EPY 374, **Educational Psychology** (3 hours); CIF 469, **Tests and Measurement** (3 hours); CIS 451-465, a methods course in the student's academic major area (3 hours); *CIS 313, **Principles of Teaching in High School** (3 hours); and *CIS 481-494, **Student Teaching in High School** (9 hours).

*For information concerning the student teaching component, see the section entitled **Office of Student Teaching**, page 94.

SPECIAL AREA TEACHER EDUCATION PROGRAMS (Grades 1-12)

The following special area teaching degree programs are offered by the College of Education and Psychology or in cooperation with other schools and colleges of the University:

Audiology**
Language Disorders**
Library Science*
Health and Physical Education*
Special Education***
Speech Pathology**
Art Education*
Music Education*

*Students seeking special area teacher certification in library science, health and physical education, art education, and music education must complete: (1) the General Core, College of Education and Psychology, (2) an academic major in the selected teaching area, (3) the Professional Education Requirements, and (4) any elective requirements necessary to complete the degree program. These requirements are the same as those for students seeking certification to teach at the secondary-school level (grades 7-12). Refer to page 87 for information concerning these requirements.

**Students seeking special area teacher certification in audiology, language disorders, and speech pathology should see curricula requirements for these areas which may be found in the Speech and Hearing Sciences Department of the College of Liberal Arts. Students seeking certification in these special areas will enroll in the College of Education and Psychology, and then will be assigned to the Department of Speech and Hearing Sciences for courses in the major. The undergraduate teaching degree will be awarded by the College of Education and Psychology.

***Students seeking special area teacher certification in special education should see curricula requirements for the various special education programs which may be found in the Department of Special Education of the College of Education and Psychology.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION (AED—130)

James H. McPhail, Chairman

B. Anderson, E. Bedenbaugh, Braun, Carson, Karnes, Stewart, Weatherford

The Department of Educational Administration and Supervision offers programs for the preparation of administrators for the public schools and colleges and for teachers of educational administration. These preparation programs are offered only at the graduate level and lead to the master's degree, the sixth year specialist's degree, and the doctor's degree. For a description of these programs, consult the **Graduate Bulletin.**

DEPARTMENT OF INDUSTRIAL AND VOCATIONAL EDUCATION (IVE—165)

E. Max Hunter, Chairman

Boutwell, Boyte, Lanmon, Moore

The student may choose from these majors: (1) Industrial Arts Teaching; (2) Industrial Vocational; and, if qualified by training and experience, (3) Industrial and Vocational Education. For graduate work consult the **Graduate Bulletin.**

A departmental minor requires twenty-one (21) hours.

INDUSTRIAL ARTS TEACHING MAJOR

This program includes the University's graduation requirements and state certification requirements. The student automatically minors in secondary education.

General Requirements

See College of Education and Psychology General Core.

Professional Requirements

CIF 300, CIF 469, EPY 372, EPY 374, CIS 453, CIS 313, CIS 483

Major Requirements

Hours	
Drawing 6	Select from IVE 121, 122, 323, 325, 350
Woodworking 6	Select from IVE 331, 332, 333, 334
Metalworking 6	Select from IVE 340, 341, 342, 343, 344, 345
Electricity 6	Select from IVE 301, 302, 303, 421

	Hours
IVE 116 General Shop	3
IVE 314 Leather	3
IVE 315 Plastics	3
IVE 482 Shop Safety	3
IVE 400 Shop Planning	3
IVE 401 Shop Management	3

Electives to complete 128 hours.

INDUSTRIAL VOCATIONAL MAJOR

General Requirements

See College of Education and Psychology Core.
A minor is not required.

Major Requirements

	Hours
IVE 121, 122, 323, 350	12
IVE 331, 332, 333, 334 (select three courses)	9
IVE 340, 341, 342, 343, 344, 345 (select four courses)	12
IVE 301, 302, 303	9
IVE 318, 315, 316, 482	12
TEC 308, 313	6

Electives to complete 128 hours.

INDUSTRIAL AND VOCATIONAL EDUCATION MAJOR

General Requirements

See College of Education and Psychology General Core.
A minor is not required.

Professional Requirements

	Hours
CIA 495, Adult Internship	9

Departmental Requirements

Vocational Education Skill Courses (will vary with skill speciality)	24

Vocational Teacher Preparation Courses

IVE 401, 403, 431, 435, 480	15
Select three (3) courses from these	
IVE 432, 436, 481, CIA 440, 445	5

Electives to complete 128 hours.

Note: The above program satisfies all licensing requirements for post-secondary vocational teaching. Options are offered for those who desire preparation for secondary level or in-plant training positions.

DEPARTMENT OF LIBRARY SCIENCE (LS—170)

George W. Whitbeck, Chairman

Boyd, Jones, Long, Tracy

A student majoring in library science may work toward either the Bachelor of Arts or the Bachelor of Science non-teaching degree or the Bachelor of Science teaching degree. Students desiring to prepare for positions in public, college, and special library fields should follow either the Bachelor of Arts or the Bachelor of Science non-teaching degree program. Students desiring to become public elementary or secondary school librarians should follow the applicable Bachelor of Science teaching degree program.

The student's choice of a degree program should be determined by his or her career goals, certification requirements, and in consultation with the chairman of the Department of Library Science.

All students seeking a major in library science need to enroll in the College of Education and Psychology.

Curriculum for Bachelor of Science Degree with a Major in Library Science
(Non-Teaching Degree)

Students desiring to prepare for positions in the public, academic, and special library fields should complete the general, departmental, and minor and elective requirements for the Bachelor of Science or the Bachelor of Arts degree (non-teaching) listed below.

Freshman and Sophomore Years

	Hours
General Requirements	53

See requirements listed under General Core for the College of Education and Psychology, page 73.

Junior and Senior Years

	Hours
Departmental Requirements (Major)	28

LS 301, 302, 303, 427, 428, 462, 463 or 471, 470, and 489.

The student majoring in library science should take at least twenty-eight (28) hours in the Department of Library Science. CIF 416 is required of all majors and is counted as a library science course. Students from departments other than Library Science who desire to minor in library science must take eighteen (18) hours in the department.

	Hours
Minor and Elective Requirements	47

In addition to general and departmental requirements, the student must also complete the requirements for a minor, or a dual major (preferably in English, social studies, or communication), and enough elective hours from any department of the University to complete the 128 semester hours required for a degree. Students should see their departmental or professional adviser for assistance in planning their minor or dual major.

Curriculum for Bachelor of Arts Degree with a Major in Library Science
(Non-Teaching Degree)

The requirements for the Bachelor of Arts non-teaching degree are the same as those for the Bachelor of Science non-teaching degree with one exception. Students in the Bachelor of Arts program must complete six (6) to nine (9) semester hours in a foreign language. Those students

who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirements by completing six (6) semester hours in the same language at the 200 level or above.

Curriculum for Bachelor of Science Degree with a Major in Library Science

(Professional Teaching Program-Elementary School Librarian)

Students desiring certification as elementary-school librarians or media directors should complete the general, specialized (departmental), professional, and elective requirements listed below.

Freshman and Sophomore Years

	Hours
General Education Requirements	53
See requirements listed under General Core, College of Education and Psychology, page 73.	

Junior and Senior Years

	Hours
Specialized (Departmental) Requirements	27
LS 301, 302, 303, 415, 416 or 491, 427 428 or 471, 462, and 470	
Professional Requirements	Hours
For K-3 Certification	42
CIE 306, 309, 311, 403, 425, and 480; CIF 469	
EPY 370 and 374; CD 350	
ARE 309	
MED 361	
Electives	6
	Hours
*For 4-8 Certification	36
CIE 306, 309, 312, 343, and 482; CIF 469	
EPY 370 and 374	
ARE 309	
MED 361	
Electives	12
*For K-8 Certification	42
CIE 306, 309, 311 or 312, 403, 425 and 480 or 343 and 482; CIF 469	
EPY 370 and 374; CD 350	
ARE 309	
MED 361	
Electives	6

*Students desiring 4-8 or K-8 certification must acquire two "areas of concentration." Persons completing specialized (departmental) requirements have earned a concentration in library science and must use elective hours for an additional concentration from those listed under Elementary Education, College of Education and Psychology, page 84.

Curriculum for Bachelor of Science Degree with a Major in Library Science

(Professional Teaching Program-Secondary School Librarian)

Students desiring certification as secondary school librarians should complete the general, departmental, professional, and elective course requirements listed below.

Freshman and Sophomore Years

	Hours
General Requirements	53

See general requirements listed under General Core, College of Education and Psychology, page 73.

Junior and Senior Years

	Hours
Departmental Requirements	27

LS 302*, 303*, 415*, 416* or 491*, 301, 427, 462
463 or 471, and/or LS 470

*Common core of courses required for both the Mississippi Class A Permit and the Class A Certificate. To qualify for the Class A Certificate, the student must complete these courses and twelve (12) additional semester hours in library science to include LS 470. Library science majors must complete all departmental requirements.

	Hours
Professional Requirements	24

CIF 300 and 469; EPY 372 and 374; CIS 313 and 492

	Hours
Electives	24

Library science majors are advised to concentrate elective hours in one or more areas other than library science in order to qualify for Mississippi certification in these areas. Students should see their departmental or professional adviser for information concerning additional certification.

DEPARTMENT OF PSYCHOLOGY—(PSY—175)

Ray S. Musgrave, Chairman

Baker, C. Carlson, Dickson, Gates, Hildman, Horn, Koeppel, Lowe, McDaniel, Mehearg, Moffat, Quigley, D. Sisemore, Welker, Yarnell

The Department of Psychology offers a full range of courses in either of two sequences: general-applied and pre-professional. It also functions as a service department in teacher education, and for other administrative divisions of the University which require psychology courses in their respective curricula. Graduate programs are described in the **Graduate Bulletin.**

Requirements for Major

A student majoring in psychology may work toward either a Bachelor of Arts or a Bachelor of Science degree. His program for either degree may be either the pre-professional or the general-applied sequence.

The requirements for the Bachelor of Arts and the Bachelor of Science are identical with one exception: students earning the Bachelor of Arts degree in psychology must complete six (6) to nine (9) hours in a foreign language. Students who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six (6) semester hours in the same language at the 200 level or above.

The student's choice of program should be determined by his plans for the future and worked out in consultation with his faculty adviser. A major consists of twenty-four (24) hours of psychology in addition to PSY 110 and may include EPY courses.

General-Applied Psychology Major

This program is provided for the student interested in psychology and who plans to enter an occupation that does not require graduate

professional training in psychology. Some career opportunities are available to bachelor's level students for the utilization of certain psychological principles and skills in mental health centers, social service agencies, hospitals, special schools, employment agencies, juvenile and family courts, etc., and as trainees in government, industrial, and merchandising fields. Students planning this major sequence may wish to develop a second area of concentration in sociology, or in early childhood education, recreational leadership, personnel management, or communications, etc. Opportunities are available for practical experience under supervision in some of these areas in the senior year.

Students aspiring to advanced professional training in psychology should follow the pre-professional sequence.

Teaching Psychology in High School

Students planning to teach psychology in high school should plan their entire course very carefully with their faculty adviser. They must meet State Department of Education certification requirements while minoring in secondary education. They should take the pre-professional psychology major sequence.

Pre-Professional Psychology Major

This major sequence is planned to provide the student with the background and skills essential for graduate professional training in psychology.

A. Curriculum—General and Professional Requirements

Any student majoring in psychology must satisfy all of the requirements in the General Core of the College of Education and Psychology found on page 73. Philosophy is recommended as one of the social sciences to meet core requirements for psychology majors.

Students who contemplate advanced graduate work are reminded that a reading knowledge of one foreign language is usually required. Study of German or French is recommended as a part of the undergraduate program for pre-professional psychology majors. Bachelor of Arts students will take one of these languages to meet general requirements.

B. Curriculum—Departmental Requirements

1. General and Specific Requirements.

The student wishing to major in psychology, regardless of his degree plan, must take twenty-four (24) hours in the Department of Psychology, in addition to PSY 110. Required of all majors are PSY 310, 320, 360, and 418.

The students taking the general-applied major will find, in addition to the required courses listed above, that PSY 231, 251, 375, 432, 450, 451, 462, 455, 436, and 492 deal with content and skills with some direct applications.

The student taking the pre-professional psychology major should, in addition to PSY 110, take PSY 310, 320, 360, and 418 as indicated above, and PSY 422, 455, or 436, and 426. The remaining hours for the major are elective within the department.

Courses designated EPY may be used toward a psychology major.

C. Curriculum—Minor and Electives—General and Professional

In addition to the General, Professional, and departmental requirements, the student must also complete the requirements for a minor, preferably in a related field. Courses not used to fulfill any of these requirements are free electives and may be taken in any department of the University.

Educational Psychology

The Department of Psychology offers certain courses which are required by the State Department of Education for teacher certification. These courses are all concerned with the contributions of psychology to the work of the teacher and are listed in the Course Description Section as **Educational Psychology.**

DEPARTMENT OF RESEARCH AND HUMAN DEVELOPMENT (RED—135) (CIF—125) (CIA—110)

L. C. Welker, Jr., Chairman

Bell, Berry, W. Cooley, Cooper, Davidson, Dennis, Easterling, Ferguson, Ginn, Gunn, Hand, L. W. Jones, F. A. Karnes, Kazelskis, Keith, Knight, Lee, Leonard, B. D. Moore, Olsen, O. Phillips, L. L. Rogers, Rush, Shaffer, R. P. Thomas, Walt, E. Walters

The Department of Research and Human Development provides supportive services in teacher education. At the undergraduate level, these services include Educational Foundations, Educational Media, Student Teaching, and Adult Education. At the graduate level, these services include Educational Foundations, Educational Media, Adult Education, and Research Training.

OFFICE OF STUDENT TEACHING

Leroy Rogers, Director

The basic purpose of the student teacher program is to provide all students in teacher-education with opportunities that will assist them in developing the skills and competencies necessary for a beginning teacher. The student teaching program provides an environment for a realistic evaluation of the strengths and weaknesses of prospective teachers.

All student teaching is done in off-campus cooperating schools designated by the Director of Student Teaching. The student teacher's assignment is for a full-day, full-quarter for which he earns nine (9) semester hours credit. Supervision is provided by cooperating school personnel and faculty members of the University.

Each student must follow the procedure listed below in submitting both his request and application for student teaching.

REQUEST—Formal request must be submitted to the Office of Student Teaching during the registration period two quarters prior to student teaching. Request for fall quarter student teaching must be filed during the registration period of the previous winter quarter. There is no regular student teaching during the summer quarter.

APPLICATION—On the day the student is regularly scheduled to register, one quarter prior to student teaching, the prospective student teacher must obtain his application for student teaching. The application must be completed and submitted with his adviser's signature within ten days from date of registration.

All student teachers:

1. Must have completed a minimum of 88 semester hours of college work.
2. Must have completed a minimum of sixteen (16) semester hours in their major field, six (6) of which must have been taken in residence in this institution.
3. Must have at least a 2.2 overall average at the time they submit their application.
4. Candidates for student teaching in the elementary school must

have completed the following courses—CIF 300, CIE 301, 305, 306, 309, 311 or 312, EPY 370 and 374.

5. Candidates for student teaching in the secondary school must have completed CIF 300, EPY 372 and 374 and special methods courses listed as CIS 451-465.

6. Must have been admitted to a teacher-education program for at least two quarters.

7. Must expect to spend the entire school day in an off-campus school designated by the Director of Student Teaching.

Candidates for student teaching in the secondary school should register for CIS 313, **Principles of Teaching in High School,** simultaneously with student teaching.

Candidates for student teaching in the elementary school should register for CIE 343 or 425, **Methods and Materials in Elementary Education,** simultaneously with student teaching.

For specific requirements, see elementary education courses listed as CIE 480, 482, 489, and secondary education courses listed as CIS 481-494, and CIS 495.

Regulations for Admission to Student Teaching Seminar CIE 489 and CIS 495

Student teaching for in-service teachers will be offered each summer quarter for six (6) semester hours. To be eligible for this course:

1. The applicant shall submit evidence of two years teaching experience and a recommendation from a principal or superintendent under whom the applicant has worked.

2. The applicant shall present evidence of a contract for the coming school year.

3. The applicant shall have previously earned twelve (12) semester hours from this institution and shall not be on probation.

4. The applicant must be in an undergraduate degree program at this institution.

5. The applicant must be teaching in Mississippi.

6. The applicant must meet all the requirements for student teaching.

7. Permission to enroll in these classes shall be granted by the Director of Student Teaching following an interview with the applicant.

8. Application for in-service student teaching must be made in the Student Teaching Office by March 30.

TEACHING INTERNSHIP

A teaching internship is offered as an alternate program in teaching certification. The student selecting this program must participate for one school year as an intern in a school system that has been approved as an intern center. Selection of students for the program is made by the participating school system with approval by the University. Any student desiring to enter this program should contact the Director of Interns in the College of Education and Psychology as he enters his junior year.

CIE 492 Internship in Kindergarten and Primary Education
CIE 493 Internship in the Middle School
CIS 496 Internship in Secondary Education

Nine (9) hours credit is awarded at the successful completion of three quarters of experience in an approved internship. **EPY 470** and **CIF 421** must be completed during the internship. Enrollment is by permission of the Director of Interns only.

EDUCATIONAL MEDIA CENTER

L. W. Jones, Director
Hand, Shaffer, R. P. Thomas, Wolf

To serve better the schools of Mississippi and to provide higher

standards of teacher education and campus instructional services, the University has established an Educational Media Center. The Center administers a regional film library, campus educational television, graphic and audiovisual services, as well as teacher education laboratories for curriculum materials, teaching the use of audiovisual equipment, and the production of instructional materials of all kinds.

The Educational Media Center carries out a multiphased service program of instructional development, media production, and research which is designed to function cooperatively with all areas of the University community. The Center's staff of media specialists is available to assist local school districts with faculty inservice workshops, surveys, consulting services, and with the design and development of instructional systems for individual instruction, ungraded schools, and adult education.

The curriculum plan encompasses graduate and undergraduate offerings. Basic courses are designed to provide an overview for prospective teachers, while graduate courses are designed to supplement existing programs and to provide a nucleus for individuals with a strong interest in media at the graduate level.

The University film library serves members of the South Mississippi Education Film Association, and it rents films to non-member schools at a minimum rental charge. This cooperative film library has served the schools of South Mississippi for twenty-five (25) years, and it is continuing to upgrade and expand its offerings in all fields. School administrators may obtain film catalogues and staff services by writing to:

The Director
Educational Media Center
Southern Station, Box 54
Hattiesburg, Mississippi 39401.

DEPARTMENT OF SCIENCE EDUCATION (SCE—380)

Including Fundamentals of Science (FS—390)

Bobby N. Irby, Chairman
Bellipanni, F. Brown, I. Brown, Craven, Dale, Flowers, Hurst, Matthews, Milkent, Sonnier

The Department of Science Education is operated jointly by the College of Science and Technology and the College of Education and Psychology. The facilities are in the College of Science and Technology. Programs in teacher education are in the College of Education and Psychology. Responsibility for the curriculum is shared jointly. Graduate programs are described in the **Graduate Bulletin.**

OBJECTIVES

The objectives of the Department of Science Education are: (1) to provide those courses in both the physical and biological sciences which would give a minimum degree of scientific literacy to all students; (2) to provide, in cooperation with the Department of Curriculum and Instruction, a curriculum in the sciences and science methods for elementary school teachers; (3) to provide programs for those students planning to teach the sciences at the secondary school level; (4) to provide programs leading to advanced degrees in science education; and, (5) to work with public schools in the development of curricula, workshops, science fairs, and other activities designed to improve science instruction at all public school levels.

CURRICULUM AND PROGRAMS

The Department of Science Education is primarily concerned with teachers and prospective teachers of science. Although some students

will be planning to teach a specific science discipline, current public school organization encourages diversification of training in the sciences for prospective science teachers. Therefore, familiarity with principles and concepts common to all the scientific disciplines should be a prerequisite for teacher training programs in science education. Hence, programs in science education are so organized as to give teachers and prospective teachers a broad understanding of several sciences, with the opportunity for enough specialization in one area to pursue advanced study.

All prospective science teachers at the junior and senior high school levels are expected to complete introductory courses in the four basic science areas—biology, chemistry, geology, and physics. One year of college mathematics is also required. With few exceptions, the first mathematics course would deal with analytical geometry.

Specialization in a particular science, depending upon the area, requires from 23 to 29 semester hours credit in that area. Upon completion of the undergraduate program, the student would be certified to teach one or more specific sciences and general science. A general outline of the four-year program is given below:

Freshman

	Hours
English 101, 102, 332	9
Mathematics 101, 103, 171	9
Chemistry 101, 102, 103	9
American Government, PS 101	3
Allied Arts 100	3
Health 101	3

Sophomore

Biology 101, 102, 202	12
Literature or Advanced Grammar, ENG 200, 201, 202, or 401	3
History 101, 102	6
Geography 223 or 224	3
Physics 101, 102, 103	9

Junior

Psychology 110	3
Sociology 101	3
Public Address 111	3
Geology 101, 103	6
Begin prescribed (27 hours) professional education sequence	
Additional sciences (Note: biology specialists must complete organic chemistry.)	

Senior

Complete education sequence (total)	27
CIS 456 (quarter preceding student teaching)	3
CIS 313, 486	12
Science Education 400-level course in specific science area	3
Complete required science courses and credits needed for graduation.	
Biology courses for specialization—BIO 101, 102, 202, 401, two electives; MIC 101 and GEN 402.	
Chemistry courses for specialization—CHE 101, 102, 103, 311, 312, 351, 352, 353.	
Earth Science courses (being interdisciplinary, courses are utilized from three departments) GLY 101, 103, 301, 241 or 304; AST 311, 312, 313; GHY 223, 224, 325, and one elective.	

Physics courses for specialization—PHY 101, 102, 103, 361, 362, three physics electives and MAT 276.

The scope of the science education program and the fact that many courses run in sequence and are offered at particular times of the year necessitate careful and frequent advisement of students. It cannot be overemphasized that students should consult with their assigned adviser each quarter. Failure to do so will most often result in unnecessary delays and hardships in completing the program.

The above program provides a broad background and some depth in all science areas, gives the prospective teacher an opportunity for considerable depth and specialization in one science area, and requires the necessary background courses in professional education for effective teaching.

Students in the College of Science and Technology and in the College of Education and Psychology can major in science education and minor in secondary education. The program as outlined above for science teachers meets the certification requirements in all states in the areas of biology, chemistry, physics, earth science, general science, and physical science.

FUNDAMENTALS OF SCIENCE (FS—390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by various other science departments, the student should read carefully the limitations for each of the Fundamentals of Science courses. Any question should be answered by the student's adviser and/or the Department of Science Education prior to enrolling in these courses since they may be taken in any sequence the student chooses.

DEPARTMENT OF SPECIAL EDUCATION (SPE—190)

William V. Plue, Chairman
Brown, Markwalder, Norsworthy, Trabont

The University of Southern Mississippi prepares teachers to teach in several areas of exceptionality. Certificate programs, Grades K-12, are available in Mental Retardation, Learning Disabilities, Physically Handicapped, and Visually Handicapped.

Students who specialize in teaching exceptional children ordinarily major in special education with emphasis in their major area of interest. It is possible for students majoring in elementary education and others to take an area of concentration in special education and obtain an endorsement to teach in selected areas.

Students wishing to major in special education should follow the program outlined below. All prospective majors, or students electing a concentration field, are urged to consult with a member of the Department of Special Education in planning their programs.

General Requirements

SPE majors should follow the General Core for the College of Education and Psychology. The Special Education Department will advise the student of options.

Professional Requirements

Programs will be scheduled individually with an adviser in the Special Education Department. In general, a minimum of six (6) semester hours will be taken in educational psychology and twelve (12) semester hours in curriculum and instruction. Courses required in special education (SPE) are:

	Hours
200, 201, 202—Practicum	3
400—The Exceptional Child	3
411—Speech and Hearing Problems for Classroom Teacher or SHS 301—Introduction to Speech Therapy	3
401—Curriculum Adaptation for the Handicapped	3
300—Problems in Special Education	3
402—Methods and Materials in Teaching Exceptional Children	3
441—Curricula for the Mentally Retarded	3
431—Curricula for Specific Learning Disabilities	3
440—Psychology and Education of the Mentally Retarded	3
430—Learning Disabilities	3
480, 482, 483, 485—Student Teaching	9
403—Psycho-Educational Evaluation of Exceptional Child	3

Special education majors will be required to take additional course work leading to state certification as determined by the student's area interest. Requirements and electives are to be taken to make a total of sixty-six (66) semester hours beyond the general requirements.

SCHOOL OF FINE ARTS

Raymond Mannoni, Dean

E. Richard Prenshaw, Assistant Dean

PURPOSE

The primary purpose of the School of Fine Arts is to provide its students with a well-rounded preparation for professional or teaching careers in one of the many branches of art, music, or theatre. In addition, it seeks to provide opportunities for students in all departments of the University to participate in artistic activities and develop an awareness of cultural values.

To achieve its purposes, the School of Fine Arts offers courses of study centered around a core of theoretical, historical, and other academic subjects, and designed to develop artistic ability and general cultural awareness.

ORGANIZATION

The School of Fine Arts is organized into five departments: Art, Art Education, Music, Music Education, and Theatre Arts. Baccalaureate degrees are awarded in Fine Arts, Art, Music, and Music Education, with appropriate majors. Undergraduate minors are available in art history, dance, music, and theatre. An Allied Arts course, which is designed to introduce the arts in an integrated manner, is taught by teams of instructors drawn from each department of the School. This course fulfills the University's core requirements for fine arts.

The School cooperates with the University Honors Program. Approximately fifteen members of each year's freshman class in music are selected to enter the School's program.

Since curricular requirements vary for each major, students desiring degrees from the School of Fine Arts should follow the course sequences for each year outlined in detail under each department in the following pages.

Students majoring in elementary education who wish to emphasize areas in fine arts, please see "Areas of Concentration for Elementary Certification."

ALLIED ARTS (AA—665)

Walter Lok, Chairman
Hartwig, Yestadt, and Team

The Department of Allied Arts is an arm of the School of Fine Arts designed to provide students with an overview of the nature of the arts, generally, and to examine, through a team of specialists, the structure of musical, plastic, and theatrical expressions.

DEPARTMENT OF ART (ART—660)

Walter Lok, Acting Chairman

Guercio, Meade, Merrifield, Tuten, Ward

Curricula leading to the degree of Bachelor of Fine Arts are offered in drawing and painting, graphic communication (commercial art), and three dimensional design. A major is available in art leading to the degree of Bachelor of Arts. Minor programs are also available in various areas of art, including art history.

Exhibitions on tour and students' exhibitions are arranged and presented by the faculty and student committees. The department reserves the right to retain student work for exhibition purposes.

DRAWING AND PAINTING MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 100 or Elective	3		
English 101, 102		3	3
Art 131—Theory	3		
Art 111, 112, 113—Design I, II, III	3	3	3
Art 101, 102, 103—Drawing I, II, III	3	3	3
Mathematics		3	
Art 221—Technical Foundations for Painting			3
Physical Education or ROTC/AFROTC	1	1	1
	13	13	13

Sophomore

Art 201, 202, 203—Figure Drawing	3	3	3
Art 332, 333, 334, 335—History (select three)	3	3	3
Art 321, 322, 323—Painting	3	3	3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

Art 421, 422, 423—Painting	3	3	3
Social Science Core Electives	3	3	3
Science	3	3	
Art Electives	3	3	3
Electives	1	1	3
	13	13	12

Senior

Art 428—Painting Project	3
Electives	9
	12

GRAPHIC COMMUNICATION MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 100 or Elective	3		
English 101, 102		3	3
Art 131—Theory	3	3	3
Art 111, 112, 113—Design I, II, III	3	3	3
Art 101, 102, 103—Drawing I, II, III	3	3	3
Physical Education or ROTC/AFROTC	1	1	1
	13	13	13

Sophomore

Art 332, 333, 334, 335—History (select three)	3	3	3
Art 341, 342, 343—Commercial Techniques	3	3	3
Art 201, 202—Figure Drawing	3	3	
Mathematics			3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

Art 441, 442, 443—Graphic Communication	3	3	3
Social Science Core Electives	3	3	3
Art 344—Illustration	3		
Electives	1	4	3
Art Electives	3	3	3
	13	13	12

Senior

Art 448—Graphic Communication Project	3
Electives	9
	12

THREE DIMENSIONAL DESIGN MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 100 or Elective	3		
English 101, 102		3	3
Art 111, 112, 113—Design I, II, III	3	3	3
Art 101, 102, 103—Drawing I, II, III	3	3	3
Art 131—Theory	3		
Science		3	3
Physical Education or ROTC/AFROTC	1	1	1
	13	13	13

Sophomore

Art 332, 333, 334, 335—History (select three)	3	3	3
Art 201, 202—Figure Drawing	3	3	
Mathematics			3
Art 351, 352—Three Dimensional Techniques	3	3	
Art 451—Three Dimensional Expression			3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

Art 452, 453, 454—Three Dimensional Expression	3	3	3
Social Science Core Electives	3	3	3
Art Electives	3	3	3
Electives	4	4	3
	13	13	12

Senior

Art 458—Three Dimensional Design Project	3
Electives	9
	12

ART MAJOR

(Leading to the degree of Bachelor of Arts)
(This program requires a minor of 18 hours outside the area of Fine Arts)

Freshman

English 100 or Elective	3		
English 101, 102		3	3
Art 131—Theory	3		
Science		3	3
Art 111, 112, 113—Design I, II, III	3	3	3
Art 101, 102, 103—Drawing I, II, III	3	3	3
Physical Education or ROTC/AFROTC	1	1	1
	13	13	13

Sophomore

Humanities Core Electives	3	3	3
Mathematics	3		
Minor and/or Electives	1	4	4
Art 332, 333, 334, 335—History (select three)	3	3	3
*Art Sequence I	3	3	3
	13	13	13

Junior

Social Science Core Electives	3	3	3
Foreign Language	3	3	3
*Art Sequence II	4	4	4
**Minor and/or Electives	3	3	3
	13	13	13

Senior

**Minor and/or Electives	12

*Nine (9) hours of art from a single area constitute a sequence.
**Minor hours must total eighteen (18) from an approved subject field.

DEPARTMENT OF ART EDUCATION (ARE—665)

William H. Poirier, Chairman

Davis, Howard, Ryan, Slater

The courses in art education are designed to prepare students to meet the requirements for state certification and to give them a practical and theoretical understanding of the area of study. The National Teacher Examinations are required of all candidates for the Art Education degree.

Exhibitions on tour and students' exhibitions are arranged and presented by the faculty and students of the department.

TEACHER CERTIFICATION CURRICULUM

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ART 101, 102, 103—Drawing I, II, III	3	3	3
ART 111, 112, 113—Design I, II, III	3	3	3
ART 131—Theoretical Foundations	3		
ENG 101, 102, and one of the following; ENG 200, 201, 202, or 401	3	3	3
HIS 101, 102—History		3	3
Physical Education or ROTC/AFROTC or approved substitute	1	1	
	13	13	12

Sophomore

ARE 309—Elementary School Art	3		
ART 332, 333, 334—Art History	3	3	3
ENG 200, 201, 202, or 401—English	3		
EPY 374—Educational Psychology			3
EPY 372—Human Growth and Development		3	
FS 104, 105, 106—Fundamentals of Science	3	3	3
MAT 100—Mathematics			3
Social Science		3	
	12	12	12

Junior

ARE 310—Public School Art		3	
ARE 412—Crafts I	3		
ARE 414—Crafts II			3
ARE 492—Art Education Project			3
ART 221—Technical Foundations for Painting		3	
ARE or ART—Elective			3
ART 351—Three Dimensional Techniques	3		
CIF 300—Foundations in Education	3		
CIF 469—Test and Measurements		3	
CIS 452—Methods in Art			3
FS 107—Fundamentals of Science		3	
PSY 110—Psychology	3		
	12	12	12

Senior

ARE and ART Electives	3		
CIS 313—Principles of Teaching High School		3	
CIS 482—Student Teaching		9	
HTH 101—Health	3		
PA 111—Public Address	3		
	9	12	

MUSIC AND MUSIC EDUCATION

The University of Southern Mississippi is a fully accredited member of the National Association of Schools of Music. Requirements for entrance and for graduation are in accordance with the published regulations of this Association.

Entrance examinations in music theory are given all freshman music students. Transfer students are given validation examinations in their applied areas.

Students desiring to major in music can elect piano, organ, voice, violin, viola, violoncello, string bass, flute, oboe, clarinet, bassoon, horn, saxophone, baritone, trumpet, trombone, tuba, woodwinds, percussion, music history and literature, theory-composition, church music, jazz, or elementary, instrumental keyboard, or vocal music education as a major. Any student of the University not registered for a music degree may pursue such courses in music as he wishes if he pays the required fees.

Music majors who have taken music courses under private instruction or in such way as not to receive credit may be excused from required courses in the music curriculum on the basis of test of proficiency.

Students electing to take applied lessons not required for specific degree programs are required to pay an additional fee. (See Table II Special Fees and Expenses on page 34 of this catalog.)

Every music major is required to participate in the same major organization for 11 or 12 quarters depending on the degree program. Departmental approval must be received if the student wishes to change organizations. In addition, the student will be allowed to participate in one other ensemble. Permission for participation in more than two ensembles must be granted by the Dean of the School. Every music major is required to attend weekly recital class each quarter.

Music and music education students are required to attend a minimum of 12 recitals/concerts each academic year.

The student who wishes to take a Bachelor of Arts or Bachelor of Science degree and minor in music may do so by taking the following distribution of courses:

	Hours
MUS 101, 102, 201, 202—Music Theory	12
MUS 131—Survey of Music Literature	3
MED 331, 332, 333—Conducting	3
APM 101, 102, 103, 201—Piano	4
APM 161, 162, or Voice Class, MED 301—Voice	2
Instrumental Electives	3
Music Electives	3
Total	30

DEPARTMENT OF MUSIC (MUS—675)

David Foltz, Chairman

Andersen, Benner, Cazedessus, Delphin, Donohue, A. Gower, R. Hill, Hays, Imbragulio, Johnston, Mannoni, Mullins, Munsell, Nowakowski, Nichols, Presser, Ragsdale, Sanchez, Stocker, Waldoff, Wood, Zaninelli

APPLIED MUSIC CURRICULA

These curricula provide instruction designed to prepare a student for a career as a professional musician or private teacher. Careful attention is given to the development of technique, interpretation, and musicianship. A broad knowledge of literature and musical styles is emphasized.

Candidates for the degree of Bachelor of Music in applied music must present recitals selected from composers of the classic, romantic, and modern schools of composition in their senior year.

CHURCH MUSIC MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Church Music

The curriculum in church music, with either voice or organ as a major, is designed to provide a thorough and complete course of training for those who intend to pursue church music as a full-time profession, Special emphasis is placed on literature to be used in the church services. Students will not be enrolled for organ until satisfactory proficiency at the piano has been demonstrated.

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
Major Applied Music (Organ, Piano, or Voice)	1	1	1
Minor Applied Music (Organ, Piano, or Voice)	1	1	1
APM 183—Chorus	1	1	1
	12	12	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Religious Electives	3	3	
Science Elective			3

Major Applied Music (Organ, Piano, or Voice)	1	1	1
Minor Applied Music (Organ, Piano, or Voice)	1	1	1
Physical Education or ROTC/AFROTC or approved substitute	1	1	
APM 283—Chorus	1	1	1
	12	12	11

Junior

MUS 401—Instrumentation	3		
Social Science Elective		3	3
MUS 462—Hymnology		3	
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MUS 459—Church Music Colloquium			3
MED 450—Vocal Pedagogy	2		
MED 331, 332, 333—Conducting	1	1	1
THE 341—Opera Workshop	1		
THE 459—Music Theatre Production			3
Major Applied Music (Organ, Piano, or Voice)	2	2	2
APM 383—Chorus	1	1	1
	13	13	13

Senior

MUS 351—History of Church Music	3		
Science Elective		3	
MUS 448, 449—Choral Literature	2	2	
Instrumental Repair, Topic I, Organ Design and Repair	3		
Major Applied Music (Organ, Piano, or Voice)	2	2	
*APM 415—Recital		1	
APM 483—Chorus	1	1	
	11	9	

*The recital requirement may be waived if the student takes an additional three hours in his applied area.

JAZZ MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Jazz

The curriculum in jazz is intended to provide a thorough course of study which will prepare students to pursue jazz music on a professional level. The student majoring in jazz not only will receive special emphasis in his chosen field, but also will receive a strong foundation in theory and other academic subjects relevant to music and general education.

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
Science Elective			3
Applied Music Elective	1	1	1
APM 101, 102, 103—Piano	1	1	1
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	12	12	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3

Science Elective	3		
Social Science Elective		3	3
MUS 231, 232, 233—History of Music	2	2	2
APM 201—Piano	1		
Physical Education or ROTC/AFROTC		1	1
Applied Music Elective	1	1	1
APM 284—Jazz Lab Band	1	1	1
APM 281, 282, or 283—Orchestra, Band, or Chorus	1	1	1
	12	12	12

Junior

MUS 401—Instrumentation	3		
MUS 375—Techniques in Scoring for Jazz Ensembles		2	
MUS 475—Advanced Techniques for Scoring for Jazz Ensembles			2
MAT 100 or 101—Mathematics	3		
MUS 360—Stylistic Developments in Jazz		3	
MUS 470—Organization and Management of Jazz Ensembles.			3
MED 331, 332, 333—Conducting	1	1	1
Applied Music Elective	2	2	2
MUS 367—Improvisation	1		
MUS 467, 468—Advanced Improvisation		1	1
Minor Applied Instrument Elective	1	1	1
APM 384—Jazz Lab Band	1	1	1
APM 381, 382, 383—Orchestra, Band, or Chorus	1	1	1
	13	12	12

Senior

MUS 476, 477—Advanced Techniques in Scoring for Jazz Ensemble	2	2	
MUS 321 or 322—Counterpoint Elective	2		
Music History or Music Literature Elective	3		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods		1	
MED 427—Percussion Class		1	
Applied Music Elective	1	1	
APM 484—Jazz Lab Band	1	1	
APM 481, 482, 483—Orchestra, Band, or Chorus	1	1	
	11	9	

MUSIC HISTORY AND LITERATURE MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Music History and Literature

The curriculum in music history and literature is planned for those who intend to teach on the college level or for those who desire careers in musical journalism, music publishing, or the recording industry—fields in which a wide and comprehensive knowledge of music history and literature is essential.

The major in music literature will receive a strong foundation not only in his chosen field but also in theory and in academic subjects which will enrich the student's cultural background.

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3

Applied Music Elective	1	1	1
APM 101, 102, 103—Piano	1	1	1
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	12	12	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
MED 331, 332, 333—Conducting	1	1	1
Foreign Language Elective (French, German, Italian)	4	4	
Science Elective			3
Applied Music Elective	1	1	1
APM 201—Piano	1		
Physical Education or ROTC/AFROTC		1	1
APM 281, 282, or 283—Orchestra, Band, or Chorus	1	1	1
	13	13	12

Junior

MUS 401—Instrumentation	3		
MUS 434—Ancient, Medieval, and Renaissance Music	3		
MUS 435—Baroque Music		3	
MUS 436—18th Century Music			3
MUS 433—20th Century Music			3
Science Elective	3		
Social Science Elective		3	3
Applied Music Elective	2	2	2
APM 381, 382, or 383—Orchestra, Band, or Chorus	1	1	1
	12	9	12

Senior

MUS 321, 322—Counterpoint	2	2	
MUS 431—History of Opera	3		
MUS 437—19th Century Music	3		
MUS 351—History of Church Music		3	
Music Theory Elective		2	
Applied Music Elective	2	2	
APM 481, 482, 483—Orchestra, Band, or Chorus	1	1	
	11	10	

ORGAN MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
APM 111, 112, 113—Organ	2	2	2
APM 101, 102—Piano	1	1	
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	

MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Foreign Language (French, German, Italian)	4	4	
Science Elective			3
APM 211, 212, 213—Organ	2	2	2
Physical Education or ROTC/AFROTC		1	1
APM 281, 282, or 283—Orchestra, Band, or Chorus	1	1	1
	12	13	12

Junior

MUS 401—Instrumentation	3		
Theory Elective		2	
MED 331, 332, 333—Conducting	1	1	1
Science Elective			3
Social Science Elective	3	3	
MUS 459—Church Music Colloquium			3
APM 311, 312, 313—Organ	2	2	2
APM 371, 372—Ensemble	1	1	
MUS 462—Hymnology		3	
APM 315—Recital			0
APM 381, 382, or 383—Orchestra, Band, or Chorus	1	1	1
	11	13	10

Senior

MED 424—Instrumental Repair, Topic I, Organ Design and Repair	3		
MUS 433—Organ Literature		2	
MED 454—Organ Pedagogy		2	
MED 301—Voice Class	2		
Elective	3		
APM 411, 412—Organ	2	2	
APM 415—Recital		1	
APM 481, 482, or 483—Orchestra, Band, or Chorus	1	1	
	11	8	

PIANO MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
APM 101, 102, 103—Piano	2	2	2
APM 183—Chorus	1	1	1
	12	12	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Science Elective	3	3	
Elective			3
Physical Education or ROTC/AFROTC		1	1
APM 201, 202, 203—Piano	2	2	2
APM 283—Chorus	1	1	1
	11	12	12

Junior

MUS 401—Instrumentation	3		
Social Science Elective		3	3
MUS 322—Counterpoint		2	
APM 371, 372—Ensemble	1	1	
MED 331, 332, 333—Conducting	1	1	1
Electives	3		3
APM 375, 376, 377—Accompanying	1	1	1
APM 301, 302, 303—Piano	2	2	2
APM 315—Recital			1
APM 383—Chorus	1	1	1
	12	11	12

Senior

MUS 442, 443—Piano Literature	2	2	
MUS 452, 453—Piano Pedagogy	2	2	
Electives	3		
MED 301—Voice Class	2		
APM 401, 402—Piano	2	2	
APM 415—Recital		1	
APM 474, 476—Accompanying	1	1	
APM 483—Chorus	1	1	
	13	9	

STRING MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
APM 121, 122, 123—Major Instrument	2	2	2
APM 101, 102, 103—Piano	1	1	1
APM 181—Orchestra	1	1	1
	13	13	13

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Science Elective	3	3	
Elective			3
APM 221, 222, 223—Major Instrument	2	2	2
APM 201—Piano	1		
APM 281—Orchestra	1	1	1
	12	11	11

Junior

MUS 401—Instrumentation	3		
MUS 321 or 322—Counterpoint Elective		2	
Theory Elective			2
MED 331, 332, 333—Conducting	1	1	1
Social Science Elective	3	3	
Elective			3
Physical Education or ROTC/AFROTC		1	1
APM 321, 322, 333—Major Instrument	2	2	2

APM 371, 372, 373—Ensemble	1	1	1
APM 315—Recital		0	
APM 381—Orchestra	1	1	1
	11	11	11

Senior

MED 456, 457—String Pedagogy	2	2	
MUS 451—Chamber Music Literature	3		
MED 301—Voice Class		2	
MED 322—Woodwind Methods		1	
MED 323—Brass Methods		1	
MED 427—Percussion Class		1	
Elective	3		
APM 421, 422—Major Instrument	2	2	
APM 471, 472—Ensemble	1	1	
APM 415—Recital		1	
APM 481—Orchestra	1	1	
	12	12	

THEORY—COMPOSITION MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Theory-Composition

This course is designed to prepare the student for teaching theory and composition, writing and arranging music of serious intent, and arranging and writing music of a commercial nature. Various steps in the preparation of music from the preliminary sketch to the published composition are included. The student will become familiar with the Musicwriter, Vari-Typer, diazo-printing, offset-printing, copyright law, and the sale, distribution and promotion of published music.

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MED 301—Voice Class			2
APM 101, 102, 103—Piano	1	1	1
Applied Music Elective	1	1	1
APM 191—Composition			1
APM 181, 182, 183—Orchestra, Band, or Chorus	1	1	1
	12	12	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
MED 331, 332, 333—Conducting	1	1	1
MED 321—String Class	1		
MED 322—Woodwind Class		1	
MED 323—Brass Class		1	
MED 427—Percussion Class			1
Applied Music Elective	1	1	1
APM 201—Piano	1		

Physical Education or ROTC/AFROTC		1	1
APM 291, 292, 293—Composition	1	1	1
APM 281, 282, 283—Orchestra, Band, or Chorus	1	1	1
	11	12	11

Junior

MUS 401—Instrumentation	3		
Science Elective		3	3
MUS 321, 322—Counterpoint	2	2	
Music Theory Elective			2
Social Science Elective	3	3	
MAT 100 or 101—Mathematics			3
Applied Music Elective	2	2	2
APM 391, 392, 393—Composition	1	1	1
APM 381, 382, 383—Orchestra, Band, or Chorus	1	1	1
	12	12	12

Senior

Foreign Language Elective (French, German, Italian)	4	4	
Electives	3	3	
Applied Music Elective	2	2	
APM 491, 492—Composition	1	1	
APM 481, 482, 483—Orchestra, Band, or Chorus	1	1	
	11	11	

VOICE MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
APM 161, 162, 163—Voice	2	2	2
APM 101, 102, 103—Piano	1	1	1
APM 183—Chorus	1	1	1
	13	13	13

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Foreign Language (French, German, or Italian)	4	4	
MUS 241—Diction			2
APM 261, 262, 263—Voice	2	2	2
APM 201—Piano	1		
THE 341, 342—Opera Workshop		1	1
APM 283—Chorus	1	1	1
	13	13	11

Junior

MUS 401—Instrumentation	3		
MUS 321 or 322—Counterpoint Elective		2	
THE 459—Music Theatre Production			3
THE 343, 447—Opera Workshop	1	1	

MED 331, 332, 333—Conducting	1	1	1
Science Elective	3		
Physical Education or ROTC/AFROTC		1	1
Social Science Elective		3	3
APM 361, 362, 363—Voice	2	2	2
APM 315—Recital		0	
APM 383—Chorus	1	1	1
	11	11	11

Senior

MUS 440, 441—Vocal Literature	2	2	
MED 450, 451—Vocal Pedagogy	2	2	
Science Elective	3		
Theory Elective		2	
THE 448, 449—Opera Workshop	1	1	
APM 415—Recital		1	
APM 461, 462—Voice	2	2	
APM 483—Chorus	1	1	
	11	11	

WIND MAJOR

(Leading to the degree of Bachelor of Music)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
MUS 131—Survey of Music Literature			3
Humanities Elective	3	3	
MAT 100 or 101—Mathematics			3
Major Wind Instrument	2	2	2
APM 101, 102, 103—Piano	1	1	1
APM 181 or 182—Orchestra or Band	1	1	1
	13	13	13

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
Science Elective	3	3	
Elective			3
Major Wind Instrument	2	2	2
APM 201—Piano	1		
Physical Education or ROTC/AFROTC		1	1
APM 281 or 282—Orchestra or Band	1	1	1
	12	12	12

Junior

MUS 401—Instrumentation	3		
MUS 321 or 322—Counterpoint Elective		2	
Theory Elective			2
MED 331, 332, 333—Conducting	1	1	1
Social Science Elective	3	3	
Elective			3
Major Wind Instrument	2	2	2
APM 371, 372, 373—Ensemble	1	1	1
APM 315—Recital		0	
APM 381 or 382—Orchestra or Band	1	1	1
	11	10	10

Senior

MED 458, 459—Wind Pedagogy	2	2
MUS 446, 447—Instrumental Literature	2	2
MED 301—Voice Class	2	
MED 321—String Methods		1
MED 322—Woodwind Methods		1
MED 323—Brass Methods		1
Elective	3	
Major Wind Instrument	2	2
APM 471—Ensemble	1	
APM 415—Recital		1
APM 481 or 482—Orchestra or Band	1	1
	13	11

DEPARTMENT OF MUSIC EDUCATION (MED—680)

William Gower, Chairman

Carnovale, Cox, Dennis, Donovan, Guilbeau, Haynie, Hong, Jerome, Keck, Lebsack, Love, Madsen, Mason, McKay, Moreland, Pound, Prenshaw, Tuley, Weed

The courses in music education are designed to give thorough and practical training in music pedagogy, as well as the preparation in practical and theoretical music, psychology, education, and cultural subjects necessary for a music specialist of broad background. **The National Teacher Examinations are required of all candidates for Music Education degrees.** The following curricula are planned to meet the demands of modern music education.

MUSIC EDUCATION MAJOR

Elementary

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141—History	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
APM 101, 102, 103—Piano	1	1	1
Voice or Instrument	1	1	1
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, 202—English Elective	3		
FS 104 and 105—Physical Science I and II	3	3	
FS 106—Biological Science I			3
MAT 100 or 101—Mathematics		3	
PSY 110—Psychology			3
**APM 201, 202, 203—Piano	1	1	1
Voice or Instrument	1	1	1
APM 181, 182, 183—Orchestra, Band, or Chorus	1	1	1
	14	14	14

Junior

MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 440—Music Education in the Elementary Schools			3
MED 411—Choral Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
MED 321—String Methods	1		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods			1
MED 450—Vocal Pedagogy		2	
FS 107—Biological Science II	3		
THE 341—Opera Workshop			1
**APM 301, 302—Piano	1	1	
Voice or Instrument	2	2	2
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	12	11	12

**The last four (4) hours of piano for the elementary music education major will be concerned primarily with a functional approach to keyboard study.

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
THE 459—Music Theatre Production		3	
Voice or Instrument	2		
MUS 456—Choral Arranging		2	
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	12	12	12

MUSIC EDUCATION MAJOR

Instrumental

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
Major Instrument	1	1	1
APM 101, 102, 103—Piano	1	1	1
APM 181 or 182—Orchestra or Band	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
FS 104, 105—Physical Science I and II	3	3	
FS 106—Biological Science I			3

MAT 100 or 101—Mathematics		3	
PSY 110—Psychology			3
MED 221, 222—String Class		1	1
APM 201—Piano	1		
Major Instrument	1	1	1
APM 281 or 282—Orchestra or Band	1	1	1
	14	14	14

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 412—Instrumental Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
MED 421, 422—Woodwind Class		1	1
FS 107—Biological Science	3		
MED 301—Voice Class		2	
EPY 374—Educational Psychology			3
Major Instrument	2	2	2
Minor Instrument	1	1	1
APM 381 or 382—Orchestra or Band	1	1	1
	14	11	12

Senior

HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
EPY 370 or 372—Psychology of Human Growth and Development		3	
MED 425, 426—Brass Class	1	1	
MED 427*, 428—Percussion Class	1	1	
Major Instrument	2	2	
APM 481 or 482—Orchestra or Band	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	11	11	12

*Percussion majors may substitute a brass, string, or woodwind minor instrument for Percussion Class MED 427.

MUSIC EDUCATION MAJOR

Keyboard (Piano-Organ)

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, 202—English Elective			3
HIS 101, 102, or 140, 141—History	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
APM 101, 102, 103—Piano	1	1	1
APM 161, 162, 163—Voice	1	1	1
APM 183—Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, 202—English Elective	3		
FS 104, 105—Physical Science I and II	3	3	
MAT 100 or 101—Mathematics		3	
FS 106—Biological Science I			3
PSY 110—Psychology			3
APM 201, 202, 203—Piano	1	1	1
APM 261, 262, 263—Voice	1	1	1
APM 283—Chorus	1	1	1
	14	14	14

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 411—Choral Methods and Curriculum Methods			3
MED 331, 332, 333—Conducting	1	1	1
MED 321—String Methods	1		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods			1
THE 341—Opera Workshop			1
FS 107—Biological Science II		3	
APM 301, 302, 303—Piano	2	2	2
APM 361, 362, 363—Voice	1	1	2
APM 383—Chorus	1	1	1
	12	12	11

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
THE 459—Music Theatre Production		3	
APM 401, 402—Piano	1	1	
APM 461, 462—Voice	2	2	
APM 483—Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	13	13	12

MUSIC EDUCATION MAJOR

Voice

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141	3	3	

MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
APM 101, 102, 103—Piano	1	1	1
APM 161, 162, 163—Voice	1	1	1
APM 183—Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
FS 104 and 105*—Physical Science I and II	3	3	
FS 106—Biological Science I			3
MAT 100 or 101—Mathematics		3	
PSY 110—Psychology			3
APM 201, 202, 203—Piano	1	1	1
APM 261, 262, 263—Voice	1	1	1
APM 283—Chorus	1	1	1
	14	14	14

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 411—Choral Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
MED 321—String Methods	1		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods			1
MED 450—Vocal Pedagogy		2	
FS 107—Biological Science II			3
THE 341—Opera Workshop			1
APM 301, 302—Piano	1	1	
APM 361, 362, 363—Voice	2	2	2
APM 383—Chorus	1	1	1
	12	11	12

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
THE 459—Music Theatre Production		3	
APM 461, 462—Voice	2	2	
APM 483—Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	12	12	12

DEPARTMENT OF THEATRE ARTS (THE—685)

I. Blaine Quarnstrom, Chairman

Amacker, Crook, Hartwig, R. B. Hill, Mesrobian, Stewart

Students choosing to major in theatre or dance should follow the appropriate curriculum outline.

A student seeking the Bachelor of Fine Arts degree in theatre should choose electives (with the help of his adviser), from art, music, dance, and dramatic literature. It is recommended that students whose interests lie in theatre design register for at least one class in general drawing and, in addition, ART 111, 112, 113.

The Bachelor of Fine Arts Teacher Certification Program is designed for students who wish to teach at the secondary school level. These students will choose their electives from the Department of Communication or the Department of English. The department will assist the student in planning his courses.

A minor program is available in theatre. The department will cooperate with the student's major professor in planning the appropriate courses.

For information concerning Master of Arts and Master of Fine Arts degrees consult the **Graduate Bulletin.**

DANCE MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 101, 102		3	3
Music 165—Enjoyment of Music		3	
Theatre 150, 151, 152—Modern Dance Technique and Composition	2	2	2
History 101, 102	3		3
Social Science Elective	3		
Theatre 155—Dance Repertory	1	1	1
Biology 101, 102		4	4
Elective	3		
	12	13	13

Sophomore

Social Science Elective		3	3
Public Address 111			3
Theatre 250—Ballet Technique	2		
Theatre 258—Modern Dance Technique and Survey	2	2	2
Theatre 259—Intermediate Dance Composition		2	
Theatre 255—Dance Repertory	1	1	1
Theatre 200—Stagecraft	3		
Theatre 306—Scene Design		3	
Theatre 120—Fundamentals of Acting	3		
Theatre 204—Stage Makeup			2
Theatre 356, 357—Dance History		3	3
Theatre 253—Dance Improvisation	2		
PE 382—Folk, Contra, Round Dances	1		
	14	14	14

Junior

Mathematics	3		
Theatre 359—Advanced Composition	2		
Theatre 358—Modern Dance Technique and Theory	2	2	2
Health 315—Anatomical Structures Related to Movement			3
Theatre 355—Dance Repertory	1	1	1
Theatre 468—Musical Theatre Dance		2	
Theatre 470—Senior Dance Production			3
Theatre 465—Music Resources for Dance		2	
Theatre 466—Dance Lecture and Demonstration		3	
Theatre 401—History and Design of Costumes			3

Theatre 370—Methods of Teaching Dance		3	
Theatre 125—Movement for the Actor	2		
Electives	3		
	13	13	12

Senior

Theatre 412—Stage Lighting	3		
Art 334—History of Art	3		
Theatre 455—Dance Repertory	1		
Theatre 427—History of Theatre	3		
Electives	3		
	13		

TEACHER CERTIFICATION MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 101, 102	3	3	
History 101, 102, or 140, 141		3	3
Political Science 101			3
Theatre 103—Introduction to Theatre	3		
Theatre 111—Fundamentals of Oral Interpretation		3	
Theatre 120—Fundamentals of Acting			3
Theatre 100, 101, 102—University Theatre	1	1	1
Public Address 210	3		
Physical Education or ROTC/AFROTC	1	1	
Fundamentals of Science 104, 105		3	3
	11	14	13

Sophomore

Mathematics			3
Allied Arts 100	3		
English 200, 201, 203 (any two)	3	3	
Psychology 110		3	
Fundamentals of Science 106, 107	3	3	
Health 101			3
Public Address 111			3
Theatre 200—Stagecraft	3		
Theatre 220, 221, 222—University Theatre	1	1	1
Electives (English* or Speech)		3	3
	13	13	13

Junior

Foundations of Education 300	3		
Educational Psychology 374		3	
Human Growth and Development EPY 372		3	
Theatre 204—Makeup			2
Theatre 301—Reader's Theatre			3
Theatre 320—Directing	3		
Theatre 420—Advanced Directing		3	
Theatre 330, 331, 332—University Theatre	1	1	1
Theatre 427, 428, 429—Theatre History	3	3	3
Theatre 401—History and Design of Costumes			3
Elective (English* or Speech)	3		
	13	13	12

Senior

Test and Measurements CIF 469	3		
Principles of Teaching in High School CIS 313		3	

Student Teaching CIS 484 or 489			9
Methods of Teaching (Speech or English) CIS 454 or 459	3		
Theatre 412—Stage Lighting	3		
Theatre 450, 451—University Theatre	1	1	
Electives (English* or Speech)	3	6	
	13	10	9

*REQUIRED: Public Address 111 plus 27 hours of English including one course from each of the following: American literature, English literature, Shakespeare, advanced grammar.

THEATRE MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

English 101, 102	3	3	
Humanities and Fine Arts Core Electives		3	3
Theatre 103—Introduction to Theatre	3		
Theatre 111—Fundamentals of Oral Interpretation		3	
Theatre 120—Fundamentals of Acting			3
Theatre 100, 101, 102—University Theatre	1	1	1
Theatre 125—Movement for the Actor			2
Public Address 210	3		
Mathematics			3
Physical Education or ROTC/AFROTC	1	1	
Elective	2	2	1
	13	13	13

Sophomore

Science Electives	3	3	
Social Science Core Electives	3		3
Theatre 140—Vocal Techniques for the Actor-Singer		2	
Theatre 200—Stagecraft	3		
Theatre 306—Scene Design		3	
Theatre 401—History and Design of Costumes			3
Theatre 204—Makeup			2
Theatre 220, 221, 222—University Theatre	1	1	1
Theatre 240—Mime and Pantomime			2
Electives	3	3	2
	13	12	13

Junior

Social Science Core Elective	3		
Theatre 492—Problems in Theatre I		2	
Theatre 320—Directing	3		
Theatre 420—Advanced Directing		3	
Theatre 301—Reader's Theatre			3
Theatre 417—Advanced Acting		3	
Theatre 459—Music-Theatre Production			3
Theatre 427, 428, 429—Theatre History	3	3	3
Theatre 330, 451, 452—University Theatre	1	1	1
Electives	3	1	3
	13	13	13

Senior

Theatre 412—Stage Lighting	3
Theatre 450—University Theatre	1
Theatre 492—Problems in Theatre II	2
Electives	6
	12

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

William Theodore Schmidt, Dean

ORGANIZATION

The School of Health, Physical Education, and Recreation is organized into four departments: Athletic Administration and Coaching, Health, Physical Education, and Recreation. The School offers a Bachelor of Science Degree in several fields of specialization administered by the departments of the School. Departmental advisers will assist in the task of selecting courses appropriate to the student's field of interest. Consult the **Graduate Bulletin** for post-baccalaureate programs.

PURPOSE

The primary purpose of the School of Health, Physical Education, and Recreation is to educate future leaders in the broad fields of athletic administration and coaching, health, physical education, and recreation. In addition, the School provides opportunities for all members of the University to participate in programs or elective courses which will contribute to their education, health, and general well-being.

ADMISSION

High school graduates who are admitted to the University of Southern Mississippi as beginning freshmen will be admitted directly to the School of Health, Physical Education, and Recreation. Transfer students will be admitted to the School upon admittance to the University under regulations specified elsewhere in the catalog. Students desiring to transfer to the School from another academic unit within the University must be in good standing academically and must have successfully completed some courses which indicate they will succeed within the School.

REQUIREMENTS

Students admitted to the School of Health, Physical Education, and Recreation are required to enroll in a major program in one of the specialized fields administered by the academic departments of the School.

Students admitted to the School of Health, Physical Education, and Recreation are especially encouraged to supplement their chosen training program by taking a selection of courses which will help them develop their community leadership potential. These might include courses in public address, communication, creative and professional writing, management, and human relations.

Students admitted to the School of Health, Physical Education, and Recreation who plan to seek teacher certification must have their professional program approved by the Dean of the College of Education and Psychology.

For the Bachelor of Science degree the following courses must be taken as a part of or in addition to the General Core Curriculum.

	Hours
English 101, 102, 201, 332	12
Honors Center 101, 102, 103	3
Fine Arts	3
Geography 103	3
Health 101 (cannot be counted toward health and physical educa-	

tion major)	3
Health 311	3
History 140, 141	6
Mathematics 100	3
Physical Education or ROTC	2-3
Political Science 101	3
Psychology 110	3
Public Address 111	3
*Science (6 hours physical science, 6 hours biological science)	12

*Recreation majors require only 6 hours of science

Please note that departments may have additional core requirements. Students should consult with department chairmen to determine total requirements for departmental programs.

In order to be granted a degree from the School of Health, Physical Education, and Recreation, students must satisfy all other pertinent requirements specified in this catalog.

DEPARTMENT OF ATHLETIC ADMINISTRATION AND COACHING (AAC-710)

M. C. Johnson, Chairman

M. Bell, J. R. Carpenter, Dunaway, R. Grantham, E. L. Harrington, Ladner, Martin, C. J. Taylor

The Department of Athletic Administration and Coaching administers two undergraduate educational programs. These programs are designed to accomplish the following objectives:

1. To prepare athletic administrators and coaches for careers in the total educational environment.

2. To provide specialized training for certification in aquatics. ATHLETIC ADMINISTRATION AND COACHING PROGRAM 1—**A Major Program for the Bachelor of Science Professional Degree in Athletic Administration and Coaching.** Teaching certification will be in Health and Physical Education. Students desiring certification in an additional teaching area should consult their adviser.

The purpose of this program is to provide specialized training for teachers who will administer and coach athletics in addition to their teaching responsibilities in secondary schools. The program requires a total of forty-two (42) semester hours in the major field areas: twenty-seven (27) semester hours of physical education courses taken in either the Department of Athletic Administration and Coaching or the Department of Physical Education, and fifteen (15) semester hours of health courses taken in either the Department of Athletic Administration and Coaching or the Department of Health. Students must also complete their professional requirements for secondary education, the general education requirements for secondary teachers, and the secondary teachers certification program. For details concerning professional requirements for secondary teachers, consult the College of Education and Psychology Section in the catalog.

Courses required by the Department of Athletic Administration and Coaching are listed below:

ATHLETIC ADMINISTRATION AND COACHING: 303, 400, 401.
PHYSICAL EDUCATION: 402.

Elect from other Athletic Administration and Coaching courses to equal twenty-seven (27) semester hours.

ATHLETIC ADMINISTRATION AND COACHING: 370, 371
HEALTH: 315

Elect from other health courses to equal fifteen (15) semester hours.

Four (4) hours taken from the following courses may be used to

satisfy partially the twenty-seven (27) semester hour Athletic Administration and Coaching requirement.

ATHLETIC ADMINISTRATION AND COACHING: 210, 211, 212, 213, 214, 215.

Electives may be selected in order to complete a total of 128 semester hours.

ATHLETIC ADMINISTRATION AND COACHING PROGRAM 2—**Certification Program in Aquatics.**

The purpose of these programs is to prepare students to meet American National Red Cross Water Safety Certification requirements.

PROGRAM 2A—**The Senior Life Saving and Water Safety Certificate.**

Issued by the University of Southern Mississippi for the American National Red Cross upon the completion of AAC 362.

PROGRAM 2B—**The Water Safety Instructors (WSI) Certificate.**

Issued by the University of Southern Mississippi for the American National Red Cross upon the completion of AAC 362 and 460.

PROGRAM 2C—**Certification Program in Aquatic Administration.**

Issued by the University of Southern Mississippi upon the completion of AAC 360, 361, 362, and 460.

DEPARTMENT OF HEALTH (HTH—715)

Wilbur L. Carr, Chairman
Barnes, M. A. Brown, K. Carlson, McCarver
Switzer, Webb, Yarrow

The Department of Health provides three educational programs. These programs are designed to meet the following objectives:

1. To train health and physical education teachers for secondary schools.
2. To provide specialized training for certification in safety and driver education.
3. To provide specialized training for certification in general and instructor's first aid.

HTH PROGRAM 1—**A Major Program for the Bachelor of Science Professional Degree in Health and Physical Education with an Emphasis in Health.**

The purpose of this program is to prepare students to teach health and physical education in secondary schools.

The program requires a minimum total of forty-two (42) semester hours in the major field areas: twenty-seven (27) hours in health courses, and fifteen (15) hours in physical education courses. Students must also successfully complete the general education and professional requirements in secondary education. For details concerning professional requirements for secondary teachers consult the College of Education and Psychology Section of this catalog.

Courses required by the Department of Health are listed below.

HEALTH: 210, 315, 321 or 421, 341, 411, 412, 415, 420, 430

PHYSICAL EDUCATION: 220, 323 or 324, 401, 402, 420

Electives may be selected in order to complete a total of 128 hours.

HTH PROGRAM 2—**A Certification Program in Safety and Driver Education**

The purpose of this program is to train students to teach safety and driver education courses in secondary schools. Professional certification for secondary schools can be obtained by completing the following courses.

HEALTH: 341, 440, 443, and three semester hours from HTH 311, 370, 441, 442, 444, or CJ 200, 305.

HTH PROGRAM 3—**Certification Programs in First Aid**

The purpose of these programs is to train students to meet American Red Cross certification requirements.

PROGRAM 3A-HTH 310—**First Aid Certificate.** Issued by the University of Southern Mississippi for the American Red Cross upon successful completion of the standard first aid course.

PROGRAM 3B-HTH 311—**First Aid and Instructor's Certificate.** Issued by the University of Southern Mississippi for the American Red Cross on completion of requirements for the standard first aid certificate and the advanced and instructor first aid course.

DEPARTMENT OF PHYSICAL EDUCATION (PE—730)

J. William Larson, Chairman

Albertson, Babin, K. Bell, Cracraft, Hannan
Milam, Slay, Talley, Townley

The Department of Physical Education administers four educational programs designed to meet the following objectives:

1. To prepare physical education and health teachers for careers of their choice in the total educational setting.
2. To qualify physical education and health majors for certification as Corrective Therapists.
3. To provide opportunities for the entire University community to develop leisure time skills.
4. To provide opportunities for students and faculty to participate in an intramural-extramural program.

PE PROGRAM 1—**A Professional Program Leading to the Bachelor of Science Degree in Physical Education and Health.**

The purpose of this program is to train future health and physical educators for the public schools. The program requires a total of forty-three (43) hours in the major field areas: twenty-eight (28) hours in physical education professional courses, and fifteen (15) hours in health courses. Students must also successfully complete the professional requirements in secondary education, the general education requirement for secondary teachers, and the secondary teachers certification program. For details concerning professional requirements for secondary teachers consult the College of Education and Psychology Section of this catalog.

Courses required by the Department of Physical Education are listed below:

COMMON REQUIREMENTS: PE 301, 303, 402, 420.

HEALTH: 315, 370, plus 6 hours electives.

ELEMENTARY EMPHASIS: PE 320 or 321, 403, 404, 424, 450 or 284, plus 4 hours electives.

SECONDARY EMPHASIS: PE 146, 147, 148, 314, 323 or 324, 326, plus 6 hours electives.

University-wide electives may be selected in order to complete 128 hours.

PE PROGRAM 2—**A Professional Program Leading to the Bachelor of Science Degree in Physical Education and Health With Certification in Corrective Therapy.**

The purpose of this program is to train future health and physical educators for the public schools. In addition, the program provides for certification in corrective therapy. This program requires thirty-three (33) hours in the major field areas: Twenty-one (21) hours in physical education professional courses, twelve (12) hours in health courses.

Students must also successfully complete the professional requirements in secondary education, the general education requirement for secondary teachers, and the secondary teachers certification program. For details concerning professional requirements for secondary teachers consult the College of Education and Psychology Section of this catalog.

Upon completion of the on-campus requirements, two quarters of work are required at the Veterans Administration Center, Biloxi, Mississippi. The successful completion of the National CTA examination will then satisfy the requirements for Corrective Therapy Certification.

Courses required by the Department of Physical Education are listed below:

PHYSICAL EDUCATION: 146, 147, 148, 301, 303, 401, 402.
HEALTH: 370, 315
PSYCHOLOGY: 231, 436, 450 (prerequisites for the therapy program.)
ELECTIVES:
PHYSICAL EDUCATION: Elect 6 hours from PE 314, 326, 404.
HEALTH: Elect 6 hours from HTH 341, 410, 411, 440, 443, 444.

THERAPY (THY) (Courses offered at Biloxi)

421—**Clinical Experience.** 3-4-0-Q. Lectures and supervised internship in various rehabilitation theories and their applications.

431, 432, 433—**Rehabilitation Theory and Application.** 3-4-0-Q. Lectures, directed clinical work, and research in rehabilitation theory and its application.

441, 442, 443—**Psychology of Rehabilitation.** 3-4-0-Q. The approach to rehabilitation as it involves the individual in the mental and physical phases of readjustment.

453—**Supervision of Therapy and its Application.** 3-4-0-Q.

PE PROGRAM 3—**The Service Program**

This program is designed to contribute to the general education of all students. In the 100 level service courses students learn basic physical skills which may be applied in the intramural program or during other times of leisure. The upper level service courses are to provide depth in a particular area of interest. All students required to take physical education courses must elect two (2) courses listed at the 100 level.

PE PROGRAM 4—**An Elective Program of Intramural Recreational Activities**

This program is designed to provide students and faculty members with opportunities to participate in recreational activities on a competitive/non-competitive basis. For details concerning this program consult the **Intramural Handbook** published annually by the Department of Physical Education.

DEPARTMENT OF RECREATION (REC—745)

Raymond L. Busbee, Chairman

J. B. Brechtel, Haley, P. Jones, Lee, Schmidt

The Department of Recreation offers programs in five areas of specialization. All programs require the completion of a series of departmental or inter-departmental courses and lead to a Bachelor of Science degree with a major in recreation and concentration in the particular specialization.

DEPARTMENTAL CORE REQUIREMENTS

All students majoring in recreation will be required to complete a series of basic recreation courses. The required courses are: REC 200, 203, 402, and 403

PROGRAM SPECIALIZATIONS

REC PROGRAM 1—**Community and Municipal Recreation**

This program provides a curriculum for students interested in career work as administrators, supervisors, or leaders with city and county recreation departments and youth-service organizations.

Courses required are: REC 322, 323, 413, 415, 422, 424, and 426.

Other required courses are: SOC 310, 311, MGT 360, and PS 402, 470, HTH 311.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 2—**Park and Recreation Planning**

This program provides a curriculum with concentration in planning for students who desire career work with local, regional, state, or federal agencies as park and recreation planning specialists. Such recreation specialists prepare master and comprehensive plans, site and facility layouts and designs, and funding programs.

Courses required are: REC 417, 432, 434, 436.

Other courses required are: CSS 100; GHY 210; PS 470; IVE 121, 392; SOC 310; and ECO 480.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 3—**Outdoor Recreation and Resources Management.**

This program provides a curriculum with concentration in park and recreational resource management for students who are interested in career work as park managers, park rangers, outdoor recreation and education specialists, and interpreters.

Courses required are: REC 342, 417, 432, 436, 441, 443, and 447.

Other courses required are: BIO 101, 102, GHY 370, 471, 472, and ECO 480.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 4—**Therapeutic Recreation**

This program provides a curriculum for students interested in working as recreational therapists in hospitals, mental and corrective institutions, rehabilitative centers, retirement villages, or in special education centers.

Courses required are: REC 322, 323, 342, 424, 451, and 452.

Other courses required are: PSY 436, CIF 382, SOC 230, 424, MED 382, and HTH 311.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 5—**Leisure Studies**

This option is designed for the student who does not wish to pursue a professional career in recreation, but rather wishes to strengthen his general education in the area of contemporary leisure values and philosophies. Students in this program will not be required to complete the recreation fieldwork requirement, REC 403, or the **Undergraduate Seminar,** REC 402. A curriculum for students electing this option will be tailored to their individual needs and interests by consultation with their departmental adviser.

Courses required are: REC 323, 413, 432, 443, and 451.

Other courses required are: ANT 211, HTH 430, MUS 165, MED 382, PHI 151, HIS 441, SOC 314, PSY 231.

Electives may be selected in order to complete a total of 128 hours.

SCHOOL OF HOME ECONOMICS

Sarah L. Weaver Gibbs, Dean

PURPOSE

The curricula in the School of Home Economics are planned to place major emphasis on careers and on improving family life. Students are prepared to assume responsibilities in areas related to the various aspects of living concerned with the environment of the individual, the family, and the community.

ORGANIZATION

The School of Home Economics is divided into four departments; Environmental Design, Family Life Services, Food and Nutrition, and Home Economics Education. Each of these departments presents a Bachelor of Science degree. Two-year schedules which lead to a certificate are offered to School Lunch Managers and Head Start and Day Care Center Directors.

CURRICULUM: SCHOOL CORE

	Hours
English	
English 101, 102	6
Humanities and Fine Arts	
History 101, 102 or 140, 141	6
ART 111 or ARE 107	3
Mathematics	
Mathematics 100 or 101 (210 for child development majors)	3
Other Courses	
Public Address 111	3
Physical Education or ROTC/AFROTC or approved substitute)	2
Science (Refer to major for specific requirements)	6
Social Science	
Political Science 101, Sociology 101, Psychology 110 (Child development majors see major for specific requirements)	9
Clothing and Textiles 131 (Not required of institution management, child development, or marriage and family living majors)	3
Food and Nutrition 163, 261 (Not required of clothing and textiles and clothing merchandising majors)	6
Home Economics Education 111 (Not required of clothing and textiles, clothing merchandising, marriage and family living, or institution management majors.)	1
Total	41 to 48

CURRICULUM MAJORS

The curriculum requirements for majors are outlined under the respective sub-titles below.

OFFERINGS FOR NON-MAJORS

Students may earn a minor in home economics by selecting nineteen (19) hours of work from the various departments. Courses may be selected for electives. Non-majors may take courses without taking the prerequisites with permission from the instructor.

DEPARTMENT OF ENVIRONMENTAL DESIGN
(C&T—810) (EVD—812)

Sue Sharp, Acting Chairman
C. Easterling, E. Davis

Two majors are currently offered in the Department of Environmental Design. They are clothing and textiles and clothing merchandising. The department also serves the clothing and textiles needs of other majors in the School of Home Economics and provides elective courses for non-majors.

Each curriculum offers information and experiences that will enable students to solve more satisfactorily their personal and family—or potential family—clothing and household textile problems. Professional opportunities abound in fashion, teaching, research, extension, and communications.

Clothing and textiles majors find positions mainly through work with textile, fabric, and pattern companies, consumer education jobs with manufacturers, and in writing for magazines, newspapers, radio, and television, depending upon the specialized preparation and interest of the individual student. An adviser helps students select background courses for specialized areas. Some students enter the teaching field.

The clothing merchandising curriculum provides basic courses in clothing, textiles, economics, business, and field experience. With this background, graduates are prepared to move into executive training programs offered by large department stores throughout the country. Such training programs lead into positions as buyers, training supervisors, fashion coordinators, comparison shoppers, radio and television script writers, and numerous other jobs involving some aspect of retailing.

CLOTHING AND TEXTILES

Suggested Minors: Art, Radio-TV-Film, Journalism, Communications, Management, Business

	Hours
General and School Cores	41
Science: 6 hours of physical science or biology or chemistry, depending on choice of minor.	
Major and School Requirements	43
C&T 221, 328, 330 or 334, 332, 333, 335, 430, 431, 432, 433, 435, 437	35
F&N 362	3
MFL 150, 351	5
Other Requirements	9
ECO 256	3
JOU 102	3
RTF 271	3
Minor Area	21 to 25
Electives	8 to 14

CLOTHING MERCHANDISING

Suggested Minors: Marketing, General Business, Management, Journalism, Communications, Radio-TV-Film

	Hours
General and School Core	41
Science: 6 hours of physical science or biology or chemistry	
Major and School Requirements	35
C&T 221, 328, 330 or 334, 332, 333, 335, 435, 437, 439	27

F&N 362	3	
MFL 150, 351	5	
Other Requirements		18
PSY 251	3	
ECO 256	3	
ART 107	3	
JOU 102	3	
ACC 201, 202	6	
Minor Area	21 to	25
Electives	9 to	13

DEPARTMENT OF FAMILY LIFE SERVICES (CD—805) (HHM—825) (MFL—830)

Altra H. Hamman, Chairman

Chichester, Dickerson, Lancaster, H. L. Rogers, Tuggle

The Department of Family Life Services offers the Bachelor of Science degree in child development with Nursery-Kindergarten Teacher Certification; home economics in equipment; and marriage and family living. A two-year course in child development which leads to a certificate is offered for Head Start and Day Care Center directors.

NURSERY SCHOOL

The University Nursery School was established in 1929 as a unit within the School of Home Economics to provide a laboratory in which students might observe the development and relationships of a group of normal, healthy, young children and participate in directing the various nursery school activities. The school accommodates children between the ages of three and five years. It operates on a half-day schedule from 8:30 to 11:45 in the morning, five days a week, throughout the year.

The daily program is planned to create an environment rich in possibilities for developing the child's mental, physical, and social self as well as attaining a greater degree of emotional maturity. The enrollment is made up of an equal number of boys and girls in the various age groups from town, faculty, and student families.

The Nursery School, which was the first to be established in Mississippi, is located on the first floor of the Home Economics Building. It has ample space indoors and a large porch and fenced-in play area outdoors. In both space and equipment it meets high standards. The climate permits outdoor play the year round. Requests for registration must be filed with the Director of the Nursery School well in advance of the time the child is to be enrolled. Any child who meets the age and development requirements may qualify.

INFANT DEVELOPMENT CENTER

The Infant Development Center, the newest child development laboratory, provides learning experiences in observation and participation with children less than three years of age. Students are able to see and to work with two-year-olds in a morning play group and to help care for infants who are given all day care. This Center increases the opportunities for home economics majors to observe, study, and participate with children from babyhood through preschool years. The child development program enriches the home economics major by providing learning experiences that develop competencies in understanding infants and young children.

CHILD DEVELOPMENT

	Hours
General and School Cores	45
Science required: FS 104, 105	
Social Science: Six hours must be taken from the following courses: ANT 211 or 212, ECO 100, GHY 103, PS 101, SOC 101	
Major and School Requirements	43
MFL 150, 351	5
CD 350, 351, 450, 451, 452, 453, 454, 455	25
F&N 363	3
HHM 442, 443	7
C&T 332	3
Other Requirements	38
ARE 309	3
EPY 370	3
CIE 317 or 306, 403	6
English (courses numbered 200 or above)	6
FS 106, 107	6
HTH 101, 310	5
MAT 310	3
MED 361	3
SCE 432 or CIE 301	3
Electives	2
Total	128

TWO-YEAR CERTIFICATE COURSE IN CHILD DEVELOPMENT

	Hours
General Education	26
ENG 101, 102	6
PA 111	3
PSY 110, EPY 370	6
SOC 101	3
HTH 101, 310	5
SCE 432	3
Home Economics	18
CD 350, 351, 359, I, II, III, 450, 451, 452, 453 (choice)	15
F&N 363	3
Recommended Electives	20
CIE 309, 311, 317, 300, 414	
MAT 210, 310	
ARE 107, 309	
MED 361, 362	
MFL 150, 351	
SPE 200, 201, 202, 300	
PE	
Total	64

HOUSING AND HOME MANAGEMENT (HHM—825)

The increasing opportunities for home economists in business with utility companies and manufacturers of equipment for the home have created many positions for those with the necessary educational background. The major, home economics in equipment, is designed for those preparing for such careers.

HOME ECONOMICS IN EQUIPMENT

	Hours
General and School Cores	47 to 48
Science required: BIO 101, MIC 101	
Major and School Requirements	60
CD 350	3
C&T 332, 330 or 334, 431	9
F&N 362, 370, 430	8
HEE 301, 302, 401, 402	13
HHM 340, 345, 441, 442, 443	22
MFL 150, 351	5
Other Requirements	9
RTF 271	3
PA 210	3
MKT 330	3
Electives	12 to 11
Total	128

MARRIAGE AND FAMILY LIFE (M&FL—830)

Marriage today is becoming widely recognized as the most important vocation for which young people can prepare.

The objectives of the marriage and family life curriculum are two-fold: first, to assist college students to grow into intelligent, effective, and satisfying family members in their own homes; and second, to prepare them for a career of service in working with families and youth.

MARRIAGE AND FAMILY LIVING

	Hours
General and School Cores	44
Science required: BIO 101, MIC 101	
Major and School Requirements	28
MFL 150, 151, 351, 451, 452	14
CD 350, 451	6
HHM 340	3
HEE 302	3
F&N 360	2
Other Requirements	26
SOC 314, 450	6
HTH 310, 422, 430	8
EPY 371, 372	6
FIN 320	3
Electives to be selected from the following areas:	15
Home Economics, Sociology, Health, Psychology	
Electives (free choice)	15
Total	128

DEPARTMENT OF FOOD AND NUTRITION (F&N—815)

Margaret McCarthy, Chairman

Gibbs, Hesson, Wilgus

This area provides courses in foods, nutrition, institution administration, dietetics, and commercial food service for undergraduate and graduate students. Some of the basic courses may be elected by non-majors from other schools of the University or by those selecting minors in food and nutrition or institution management.

Students selecting food and nutrition as a major can prepare for positions in public health, extension, research, journalism, commercial organizations, dietitians in hospitals, government services, clinics or consultants in restaurants, hotels, motels, country clubs, school food service, industry, and related fields depending upon their major emphasis without this department.

Institution management-dietetics curriculum meets the academic requirements for membership in the American Dietetic Association and qualifies the student for an internship approved by the association. Institution management and food and nutrition curriculums may also lead to meeting academic requirements in the American Dietetic Association.

A two-year certificate course is available for school lunch managers. The School of Home Economics in cooperation with the State Department of Education sponsors an annual School Lunch Managers' Workshop.

CHARCOAL ROOM

The Charcoal Room is a modern academic laboratory for institution management majors. The Charcoal Room is in the University Commons which is centrally located on the campus.

The facility provides good food of high quality in attractive surroundings for congenial association of faculty members, staff, and graduate students with their colleagues, guests, and families. It also offers an excellent stimulating experience and training center for institution management majors under the guidance of the institution management faculty.

INSTITUTION MANAGEMENT-DIETETICS

Suggested minors are: for food and nutrition majors—chemistry or journalism; for institution management-dietetics majors—chemistry, general science, or health; and for institution management majors—chemistry, marketing, accounting, biology, economics, art, or management.

		Hours
General and School Cores		44
Science required: BIO 101, MIC 101 (6 hrs)		
Major and School Requirements		31
F & N 362, 370, 430, 460, 461, 470, 471, 472, 473, 474	31	
Other Requirements		38
EPY 374	3	
CHE 101, 102, 251, 252, 321	15	
BIO 221	3	
ECO 200 or 256	3	
ACC 201	3	
MGT 360	3	
MGT 364 or PSY 451	3	
HTH 101, 310	5	
Electives		15
Total		128

INSTITUTION MANAGEMENT

Minor: Business

		Hours
General and School Cores		44
Science required: BIO 101, MIC 101 (6 hrs)		
Major and School Requirements		31
F&N 362, 430, 460, 470	12	
IAD 370, 471, 472, 473, 474	16	
HEE 302	3	
Other Requirements		20
CHE 101, 102, 251, 252, 321	15	
HTH 101, 310	5	
Minor Requirements		21
ACC 201	3	
ECO 200	3	
FIN 100	3	
MGT 360, 364, 454	9	
MKT 330	3	
Electives		12
Total		128

FOOD AND NUTRITION

Minor: Journalism or Chemistry

		Hours
General and School Cores		44
Science required: BIO 101, MIC 101		
Major and School Requirements		28
CD 338	3	
HHM 315	3	
MFL 150, 351	5	
F&N 362, 430, 460, 461	12	
IAD 370	2	
HEE 302	3	
Other Requirements		21
CHE 101, 102, 251, 252, 321	15	
ECO 256	3	
HTH 101	3	
Minor		21
Electives		14
Total		128

TWO-YEAR CERTIFICATE COURSE

A two-year schedule of courses which leads to a certificate is planned for school lunch managers. The program includes general education courses as well as those designed to add to the special preparation of the individual as a school lunch manager.

Curriculum

General Education Courses	Hours
ENG 101, 102	6
MAT 100	3
HIS (any course)	3
PSY 110	3
BIO 101	3

HTH 101	3
ART (any course)	3
HTH 310	2
MFL 150	2
ECO 200	3
English (Literature)	3
F & N 163	3
F & N 261	3
F & N 362	3
IAD 271	3
IAD 272	3
IAD 273	3
Electives	12
Total	64

DEPARTMENT OF HOME ECONOMICS EDUCATION (HEE—820)

Mary E. Faulkinberry, Chairman

Bryant, Milner

The Home Economics Education curriculum includes the requirements for teacher certification as set by the Mississippi State Department of Vocational Education and qualifies graduates to teach in secondary schools under the requirements of the Federal Vocational Acts. Graduates are prepared to take places in the professional and business communities as teachers of home economics, home service directors for utility and manufacturing companies, home economist with the Cooperative Extension Service as well as employees in other agencies concerned with Consumer and Homemaking education.

HOME ECONOMICS EDUCATION

	Hours	
General and School Cores	47 to 48	
Science required: CHE 101, 102 (6 hours)		
Major and School Requirements		52
F&N 362	3	
CD 350	3	
C&T 330, 332, 333	9	
MFL 150, 351	5	
HHM 340, 345, 442, 443	13	
HEE 301, 302, 402, 403	19	
Other Requirements		27
HTH 101	3	
BIO 101	3	
MIC 101	3	
ENG 200 or 201 or 202 and 332	6	
EPY 372, 374	6	
CIS 313	3	
CIF 469	3	
Electives	2 to 1	
Total		128

COLLEGE OF LIBERAL ARTS

Claude E. Fike, Dean

PURPOSE

It is the purpose of the College of Liberal Arts to provide a broad cultural and educational experience, specialized disciplines in major and minor fields, and pre-professional programs. Consult the **Graduate Bulletin** for postbaccalaureate programs.

A student entering the College of Liberal Arts will be assigned to the departmental chairman of his major field for academic advisement. The specific Bachelor of Arts or Bachelor of Science degree requirements of the College of Liberal Arts are listed below. See departmental offerings for major and minor requirements.

For the **Bachelor of Arts Degree:**

	Hours
English (Twelve hours beyond ENG 100)	12
History	6
Other Courses	12
Twelve hours from the following areas (no more than three hours in any one area): **Allied Arts** or **Enjoyment of Music,** anthropology, geography, political science, philosophy, public address, sociology	
Science (May include Fundamentals of Science)	6
(The Science 331 series will not satisfy degree requirements except for Elementary Education majors)	
Mathematics	3
* Foreign Language	12 or less
Physical Education or approved substitute or ROTC/AFROTC	2-3

*Depending on placement

For the **Bachelor of Science Degree:**

	Hours
English (Twelve hours beyond ENG 100)	12
History	6
Science (May include Fundamentals of Science)	12
(The Science 331 series will not satisfy degree requirements except for Elementary Education majors)	
Mathematics	3
*Other Courses	21
Twenty-one hours from the following areas (no more than three hours from any one area): **Allied Arts** or **Enjoyment of Music,** anthropology, economics, geography, philosophy, political science, psychology, public address, sociology	
Physical Education or approved substitute or ROTC/AFROTC	2-3

*Students who certify to teach must also include PA 111 and HTH 101.

ORGANIZATION

The College of Liberal Arts is organized into eleven departments: Aerospace Studies; Anthropology, Philosophy, and Religion; Communication; English; Foreign Languages; Geography; History; Military Science; Political Science; Sociology; and Speech and Hearing Sciences. The Departments of Aerospace Studies and Military Science have no academic major or minor. Other departments offer both majors and minors.

A major and a minor in Advertising, American Studies, Community and Regional Planning, Criminal Justice, Latin American Studies, Linguistics, Social Studies, and the Teaching English to Speakers of Other Languages are administered by the College of Liberal Arts and involve an interdisciplinary curriculum (see description below). A minor in Asian Studies is another interdisciplinary program in the College of Liberal Arts.

ADVERTISING PROGRAM

Birthney Ardoin, Director

The Department of Communication offers a major in advertising through an interdisciplinary program administered in conjunction with the Department of Marketing in the School of Business Administration.

The advertising major is designed to prepare students to work in advertising agencies, business, and industries that require advertising departments, or as specialists in the mass media.

Advertising majors in Liberal Arts may follow either a Bachelor of Arts or a Bachelor of Science curriculum dependent upon specialized interests. A curriculum plan should be developed with the major adviser early in the program.

Advertising majors do not have a separate minor. Majors must complete fifty-four (54) semester hours from the following recommended curriculum.

MKT 320 Principles of Marketing
MKT 342 Principles of Retailing
JOU 331 Print Media Advertising
MKT 355 Principles of Advertising
MKT 365 Consumer Behavior
RTF 330 Broadcast Advertising
RTF 311 Radio Production
RTF 440 TV Production
MKT 322 Marketing Problems
MKT 455 Advanced Advertising
MKT 424 Marketing Research
COM 417 Practicum in Advertising (May be repeated twice for credit)
COM 431 Advertising Management and Sales
RTF 270 Introduction to the Film

Elect three courses from JOU 340, JOU 460, RTF 271, RTF 371, RTF 460

Elect one course from COM 407, RTF 425

Elective courses from the following Behavioral Science listings are also recommended:

PSY 110 General Psychology
PSY 251 Applied Psychology
PSY 375 Developmental Psychology
PSY 455 Social Psychology
SOC 101 Introduction to Sociology
SOC 240 Social Problems
SOC 310 Urban Sociology
SOC 450 Social Foundations of Personality
HIS 441 American Thought and Culture
PA 311 Persuasion

The recommended minor in advertising includes: JOU 331, COM 417, COM 431, MKT 355, 322, one course from MKT 320, 342, 365, and one from MKT 424, 455, RTF 330.

AMERICAN STUDIES PROGRAM

David M. Landry, Director

The University of Southern Mississippi offers an interdisciplinary major and minor in American Studies. The program is designed for students interested in a broad liberal arts education and especially for students in secondary education who need a social science major. Also, the program would apply to pre-law students who might want to combine American Studies with political science or business.

The major requires thirty (30) semester hours and the minor requires eighteen (18) semester hours. If a student desires to have a double major then no minor is required.

The requirements for the major are:

	Hours
English: 370—American Literature I; 371—American Literature II; or any other upper level course dealing with American writers	3
History: (any U.S. History above the 100 level)	3
Political Science: (any American political science course above the 200 level)	3
Three hours each from three different areas as listed below: Geography 302—Geography of the U.S. and Canada Criminal Justice 200—Introduction to Law Enforcement Communication 200—Survey of Mass Communication Economics 310—Economic History of the U.S. Sociology (any appropriate course above 100 level) Music 432—American Music Art and Theatre—(any appropriate courses)	9
American Studies Seminar 403	3
Electives (chosen from all the above mentioned fields and approved by the director of the American Studies Program)	9
	30

The recommended courses for the minor include:

	Hours
English: 370—American Literature I; 371—American Literature II; or any other upper level course dealing with American writers	3
History: (any U.S. History above the 100 level)	3
Political Science: (any American political science course above the 200 level)	3
Three courses chosen from: Geography 302—Geography of the U.S. and Canada Criminal Justice 200—Introduction to Law Enforcement Communication 200—Survey of Mass Communication Economics 310—Economic History of the U.S. Sociology (any appropriate course above 100 level) Music 432—American Music Art and Theatre—(any appropriate courses)	9
	18

ASIAN STUDIES PROGRAM

Roger Pearson, Director

The Asian Studies Program offers an interdisciplinary minor within the Departments of Anthropology, Philosophy, and Religion; Foreign Languages; Geography; History; and Political Science. It is primarily designed for students seeking employment in overseas positions in both governmental and commercial capacities, with the United States Government or United Nations Organizations in this or a foreign country, or else as prospective teachers.

Requirements for Minor

A minor in Asian Studies requires a total of eighteen (18) semester hours to be selected from no less than four of the following academic areas. (All courses listed below carry three hours of credit.)

Anthropology

ANT 314 Peoples and Cultures of the Orient.
ANT 411 Comparative Indo-European Studies.

Foreign Languages

FL 400 Introduction to Exotic Languages. (May be repeated for Chinese, Japanese, or any other oriental language up to a total of six hours.)

Geography

GHY 307 Geography of Asia.

History

HIS 301 Survey of the Far East.

Philosophy

PHI 352 Oriental Philosophy.

Political Science

PS 453 Far Eastern Governments and Politics.
PS 454 Middle Eastern Governments and Politics.

Religion

REL 435 Religious Literature and Thought of the Near East.
REL 437 Religious Literature and Thought of the Far East.

COMMUNITY AND REGIONAL PLANNING PROGRAM

James W. Gladden, Director

The Community and Regional Planning Program offers an interdisciplinary major for a Bachelor of Science degree.

The general objectives of the program are to provide:

(1) A basic core of practical training and course work in community and regional planning;
(2) A generalized interdisciplinary core of related training, primarily behavioral knowledge and skills;
(3) A base upon which students can build a program of graduate study in community and regional planning, the welfare professions, or the social and environmental professions; and
(4) A general but systematic background for students who intend to assume positions in community and regional planning and planning-related professions without further formal study.

Requirements for the Major:

The requirements for the major are fifty-six (56) hours in the College of Liberal Arts Core; twenty-four (24) hours from the Generalized Interdisciplinary Requirements; twelve (12) hours in Research Methodology; twenty-one (21) to twenty-seven (27) hours in the Community and Regional Planning Core; and fifteen (15) hours of electives.

		Hours
Liberal Arts Bachelor of Science Core		56
Courses selected in the Liberal Arts core should include ECO 255, GHY 305, SOC 101, PS 101, PA 101, and ANT 212.		
Generalized Interdisciplinary Requirements		
JOU 421	Public Relations	3
ECO 424	Economics of Urban Areas	3
ECO 480	Environmental Economics	3
SOC 240	Social Problems	3
SOC 310	Urban Sociology	3
PS 470	Public Administration	3
GHY 453	Transportation Geography	3
GHY 460	Urban Geography	3

GLY 306	Environmental Geology	3
HTH 421	Sanitation	3
TEC 392	Architectural Landscaping	3
TEC 456	Architectural Design IX	3
REC 436	Recreation Planning	3

Research Methodology

GHY 415	Quantitative Methods in Geography	3
GHY 210	Cartography	3
GHY 411	Aerial Photo Interpretation	3
One of the following:		3
GHY 413	Field Methods in Geography	
GHY 414	Urban Field Methods	

Community and Regional Planning Core

GHY 360	Introduction to Community & Regional Planning	3
GHY 361	Regional Planning and Development	3
GHY 363	Community & Regional Planning I: Theory, Methods, and Analysis	3
GHY 364	Community and Regional Planning II: Comprehensive Planning Elements	3
GHY 465	Community and Regional Planning III: Programming and Implementation	3
GHY 466	Public Policy and the Planning Process	3
GHY 491	Internship	3-9
Electives		15
		143-149

CRIMINAL JUSTICE STUDIES PROGRAM (CJ)

Tyler H. Fletcher, Director

Alonzo, Murley, Oubre

The Criminal Justice Studies Program offers an interdisciplinary major and minor for a Bachelor of Arts or Bachelor of Science degree and a program of graduate study.

Requirements for the Major:

Twenty-four (24) hours in Criminal Justice Studies, fifteen (15) hours in related courses in political science, fifteen (15) hours in either sociology and social work, communication (public relations), geography (community and regional planning) or anthropology and philosophy, and three (3) hours in drug identification.

Criminal Justice Studies		**Hours**
CJ 200	Introduction to Criminal Justice	3
CJ 201	Police Administration	3
	or	
CJ 406	The Administration of Criminal Corrections	3
CJ 401	Practicum	3
CJ 402	Practicum	3
Advanced Electives in Criminal Justice Studies		3

Political Science

PS 101	American Government (core)	3
PS 301	State and County Government	3
PS 480	United States Constitutional Law	3
PS 481	The Judicial Process	3
PS 402	Municipal Government	3

Sociology and Social Work (Five of the 8 listed below)		Hours
SOC 101	Introduction to Sociology (core)	3
SOC 230	Introduction to Social Work	3
SOC 240	Social Problems	3
SOC 310	Urban Sociology	3
SOC 350	Sociology of Minorities	3
SOC 330	Methods of Social Work	3
SOC 341	Criminology	3
SOC 444	Juvenile Delinquency	3
Communication (Public Relations) (Five of the 7 listed below)		
PA 111	Oral Communications (core)	3
JOU 301	Feature Writing	3
JOU 421	Public Relations	3
JOU 422	Publicity Methods	3
PA 311	Persuasion	3
PA 330	Discussion Group Leadership	3
PA 400	Symbolic Function in Persuasion	3
Geography (Community and Urban Planning)		
GHY 103	Principles of Global Geography	3
GHY 360	Introduction to Community & Regional Planning	3
GHY 453	Transportation Geography	3
GHY 465	Community and Regional Planning III	3
GHY 460	Urban Geography	3
Anthropology and Philosophy (Five of the 7 listed below)		
PHI 151	Introduction to Philosophy (core)	3
PHI 356	Ethics	3
PHI 358	Philosophy of Law	3
ANT 211	General Anthropology (core)	3
ANT 212	Cultural Anthropology	3
ANT 320	Urban Anthropology	3
ANT 420	Culture and Ethnicity	3
Special Requirement		
PSC 440	Drug Identification	3
Total hours in the major		57
Electives		21
Remaining Core		50
		128

LATIN AMERICAN STUDIES PROGRAM

Orazio Ciccarelli, Director

The Latin American Studies Program offers: (A) an interdisciplinary major in Latin American Studies; (B) an interdisciplinary minor in Latin American Studies, (C) a major in Latin American Foreign Trade and Finance. The program is designed to prepare students for careers in government, business, teaching, or private organizations having Latin American interests. The requirements listed below are in addition to the General College Core curriculum for either the Bachelor of Arts or the Bachelor of Science degree. Students pursuing this program will be advised by the director of the Latin American Studies Program.

A. INTERDISCIPLINARY MAJOR IN LATIN AMERICAN STUDIES

	Hours
1. History 380 and 381	6
2. History 480, 481, or 482	3
3. Geography 303 or 304	3
4. Political Science 456	3
5. Political Science 434 or 458	3
Total	18

and a total of twelve (12) hours elected from courses in history, geography, political science, economics, anthropology, sociology, and geology relevant to Latin America and approved by the director of the Latin American Studies Program.

In addition, the student must complete Spanish or Portuguese studies in the Foreign Language Department relevant to Latin America equal to at least six (6) hours above the 300 level.

B. INTERDISCIPLINARY MINOR IN LATIN AMERICAN STUDIES

	Hours
1. History 380 and 381	6
2. Geography 303 or 304	3
3. Political Science 434 or 456	3
Total	12

and a total of six (6) hours elected from courses in history, geography, Spanish, political science, economics, anthropology, sociology, and geology specifically related to Latin America.

A certificate of competency will be granted upon completion of the above requirements.

C. MAJOR IN LATIN AMERICAN TRADE AND FINANCE

	Hours
1. Economics 255 and 256	6
2. Accounting 201 and 202	6
3. Finance 389	3
4. Finance 472	3
5. Economics 340 and 345	6
6. Economics 330	3
7. Economics 435	3
8. Economics 470	3
9. Political Science 456	3
10. Political Science 434 or 458	3
11. History 381	3
Total	42

and a total of six (6) hours from courses in economics, finance, geography, history, political science, geology, and anthropology relevant to Latin America and approved by the director of the Latin American Studies Program.

In addition, the student must complete Spanish or Portuguese studies in the Foreign Language Department relevant to Latin America equal to six (6) hours above the 300 level.

LINGUISTIC PROGRAM

Marice C. Brown, Director

The Linguistics Program is interdisciplinary in nature and is drawn from the Departments of Communication, English, Foreign Languages,

and other departments offering linguistically related courses. It is primarily designed to undergird careers calling for proficiency in the use and/or analysis of languages: the teaching of languages (including English either as a first or second language), government service, business with overseas operation, and the area of international relations. Students pursuing this program will be assigned an adviser by the director of the program.

Requirements for Major

A. One course selected from each group below
   1. FL 300, PA 210, SHS 201 3
   2. ENG 400 3
   3. ENG 402, FL 312, 322, 363, 372 3

   9

B. Seven courses (twenty-one semester hours) selected from the courses listed below
   1. ANT 311, 411
   2. ENG 401, 406, 409
   3. FL 200, 400
   4. PA 324

Total 30

Requirements for Minor

A student wishing to obtain a minor in linguistics must take three courses from (A) above and four courses from (B) above.

RECOMMENDED PRE-LAW PROGRAM

Adviser: Dr. Wilber

The requirements for admission to accredited law schools vary. A few schools require only three years of pre-law study, but most require completion of degree programs. The pre-law student should obtain a catalog of the law school where he intends to study and use it in planning his program. Law schools expect the pre-law student to emphasize content subjects rather than skill subjects. All schools require that their students be able to express themselves well in written composition, so a student who is weak in composition should take extra courses.

The program at the University of Southern Mississippi is divided into two parts, and the pre-law student should select one.

A. The student may earn a regular baccalaureate degree from the University of Southern Mississippi. This is the usual program.

B. The student may earn a degree from the University of Southern Mississippi by completing three years of pre-law study and transferring back a year of work from the law school after it is completed. Under this program the following requirements must be met:
   1) A minimum of 94 hours with 188 quality points in pre-law courses must have been completed, with at least three quarters of residence at the University of Southern Mississippi.
   2) All core requirements must have been met for the College of Liberal Arts
   3) At least one year of law school work must be transferred back, the marks for which must average C or better. The combined total of hours at the University of Southern Mississippi and those transferred back from law school must equal 128 or more. The work from the law school must be transferred back

within two years of leaving the University of Southern Mississippi.

The student's attention is invited to the following courses that might be especially helpful in preparing for law school:

History 412, 444.
Political Science 407, 480, 481, 482, 485.
Public Address 111.

The student should notice that most law schools now require an applicant for admission to have taken satisfactorily the Law School Admission Test. Some schools want this to be taken nine months before entering law school. The pre-law adviser can inform a student of the dates and places where this test is given, but the student must arrange for taking it.

SOCIAL STUDIES PROGRAM

Philip A. Kalisch, Director

The interdisciplinary major and minor in the area of Social Studies is jointly sponsored by the College of Liberal Arts and the College of Education and Psychology. This program is open to both prospective teachers as well as those students desiring a broad preparation in the social sciences. Consequently a student majoring in social studies may elect the degree program of either college. Students who plan to teach in the public schools must meet the professional certification requirements of the College of Education and Psychology. It is recommended that a student who is planning to teach the social studies in junior or senior high school take this interdisciplinary major as it more adequately prepares one to teach all the social studies courses currently offered in the public schools.

Requirements for the Social Studies Major

The social studies major requires a minimum of sixty hours, a number of which will fulfill the core curriculum requirement in the social sciences. Although no formal minor is required, prospective teachers will necessarily complete the twenty-seven hour block in secondary education. The social studies major must complete the following program of courses:

History	**Hours**
HIS 101, 102 World Civilization	6
HIS 140, 141 United States History	6
HIS 341 Mississippi History	3
Elective in history	3
Political Science	
PS 101 American Government	3
PS 330 United States Foreign Policy	3
PS 301 State and County Government	3
Elective in political science	3
Sociology	
SOC 101 Introduction to Sociology	3
SOC 311 Rural Sociology **or** SOC 240—Social Problems	3
SOC 450 Social Foundations of Personality **or** SOC 471—Social Institutions	3
Economics	
ECO 255 Principles of Economics I	3
ECO 256 Principles of Economics II	3
Elective in economics	3

Geography
GHY 103 Principles of Global Geography 3
GHY 223 Weather and Climate 3
Elective in geography chosen from one of the following: GHY 331, 350, 341, 435 3

Anthropology
ANT 212 Cultural Anthropology 3

Requirements for the Social Studies Minor (non-teaching)

The minor in social studies will consist of twenty-one hours in no less than four of the six fields specified below, and a minimum of twelve hours in courses numbered 200 or above. The designated fields are history, political science, sociology, economics, geography, and anthropology.

THE PROGRAM OF TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

Bonnie C. Brinegar, Director

The program requires courses in the Departments of Communication, English, and Foreign Languages and prepares students for careers in the teaching of English to nonnative speakers both in the United States and abroad. A student earning the B.A. degree with a major in Teaching English to Speakers of Other Languages may certify to teach English to native speakers in the secondary schools of the United States by taking an additional two courses in English, to be determined by his adviser. A student may obtain secondary certification in a foreign language by taking a total of 18 hours in the same language.

Department of Communication: **Hours**
Public Address 201 3

Department of English:
English 340
English 400
English 401
English 402
English 454 or 455
One course in American Literature
One course in British Literature after 1700 21

Department of Foreign Languages:
One course in Latin
Four courses in a modern language
FL 300 18

Certification Requirements Specified by the College of Education and Psychology:
EPY 372, 374
CIF 300, 469
CIS 455
CIS 484 or CIS 485
CIS 313 27

DEPARTMENT OF AEROSPACE STUDIES (AOS—202)
(AIR FORCE ROTC)

David D. Chamberlin, Chairman
Jahnke, Lewis, Patton, Winstead

MISSION

The mission of the Air Force ROTC program is, through a college academic program, to commission career-oriented officers in response to Air Force requirements.

SCOPE OF THE PROGRAM

The Air Force Reserve Officer Training Program is an accredited part of any of the curricula of the University. Completion of AFROTC waives academic minor requirements. The General Military Course may also be substituted for physical education requirements.

REQUIREMENTS

The AFROTC program is available to men and women who can meet the following eligibility requirements.

GENERAL MILITARY COURSE: Freshmen and sophomores who are citizens of the United States and who are fully enrolled University students may elect to complete the General Military Course (GMC). The Professor of Aerospace Studies may waive GMC or portions of GMC requirements for students who have served on active duty or who have completed the junior or basic senior level ROTC programs of any military service. Requirements may also be waived for CAP training.

PROFESSIONAL OFFICER COURSE: Enrollment in the Professional Officer Course is limited to students who complete the GMC program or the alternate six week summer camp, meet age and physical requirements, pass the Air Force Officer Qualification Test, are selected by a board of Air Force Officers and enlist in the Obligated Air Force Reserves (ORS).

COMMISSIONING

Upon completing the Air Force ROTC Professional Officer Course and receiving a baccalaureate degree, cadets are normally offered a commission as Second Lieutenant, United States Air Force Reserve. It is not to be presumed that any member of the Professional Officer Course accrues a vested right to a commission by virtue of POC membership.

DESCRIPTION OF BASIC PROGRAMS

FOUR-YEAR PROGRAM: The basic four-year program is divided into two phases. The first phase is designated the General Military Course (GMC) and is normally taught during the freshman and sophomore years. The second phase is designated the Professional Officer Course (POC) and is normally taught during the junior and senior years.

The General Military Course is designed to serve as an introduction to aerospace age citizenship. It also affords students an opportunity to study the Air Force and Air Force ROTC program without incurring any military obligation. All necessary texts and a complete regulation Air Force uniform are furnished.

The Professional Officer Course is designed to develop professional officer qualities and prepare students for active duty. Students formally enrolled in the POC receive a $100.00 monthly allowance, a regulation Air Force uniform, and all AFROTC texts. Students who complete the GMC and elect to continue earning a commission by enrolling in the POC will normally attend a four-week summer camp between the sophomore and junior years.

THREE-YEAR PROGRAM: The three-year program is designed to offer USM students, enrolled in a three-year baccalaureate program, the opportunity to complete AFROTC and USM degree requirements concurrently. Students planning to earn a bachelor's degree in three years should contact the Department of Aerospace Studies for assistance in coordinating their program.

TWO-YEAR PROGRAM: The two-year program is designed to offer students, who have two academic years of undergraduate or graduate work remaining, the opportunity to earn a commission by direct enrollment in the Professional Officer Course. These students must attend a six-week summer camp prior to enrolling in the POC. However, students should note that availability of the two-year program will be determined

and limited by quotas established by AFROTC in response to USAF requirements. This program is designed to accommodate junior college and transfer students. Such students must meet all POC entry requirements and should contact the Department of Aerospace Studies, Southern Station, Box 5145, early in their sophomore year.

AFROTC COLLEGE SCHOLARSHIP PROGRAM

A combined institutional and Air Force committee nominates qualified freshman, sophomore, and junior cadets to compete for three, two, and one-year scholarships respectively. Scholarships consist of full tuition, books, fees, supplies and equipment, plus a $100.00 monthly nontaxable allowance during each year of eligibility.

Four-year college scholarships are also available. High school students who feel they can meet basic eligibility requirements are encouraged to apply by writing to: **Air Force ROTC (SDSF), Maxwell AFB, Alabama 36112 before 15 November** of their senior year.

FLIGHT INSTRUCTION PROGRAM

The Flight Instruction Program (FIP) provides 35 hours of flight instruction in light aircraft to selected professional officer course cadets during their senior year at the University. Flight training is conducted by a local accredited civilian flying school. The ground school portion is conducted by the Department of Aerospace Studies and includes weather, navigation, fundamentals of elementary flight maneuvers, and Federal Aviation regulations. FIP graduates are eligible for an FAA Private Pilot's Certificate.

DEPARTMENTAL ACTIVITIES

The Arnold Air Society and Angel Flight are elite University service organizations sponsored by the Department of Aerospace Studies. The AFROTC cadets also participate in Air Force Base visits, USM intramural sports, the Military Ball, the Cadet Honor Guard, Dining-in, Awards Day, and other University affairs.

DEPARTMENT OF ANTHROPOLOGY (ANT—286) PHILOSOPHY (PHI—284), AND RELIGION (REL—288)

Roger Pearson, Chairman

G. Hales, Kuttner, Luth, Nau, Sullivan, Swan, J. Thomas, F. Wood

The Department of Anthropology, Philosophy, and Religion offers programs of study leading to the degrees of Bachelor of Arts and Bachelor of Science. A baccalaureate student may choose to major or minor in (a) anthropology or (b) philosophy. Alternatively he may minor in (a) anthropology (b) philosophy (c) anthropology and religion, or (d) philosophy and religion.

Considerable flexibility in the selection of courses is encouraged in order to ensure that the needs and interests of the individual students are met, but majors should plan their courses in consultation with their departmental adviser.

In addition, the department offers a course of study leading to a graduate minor in anthropology, details of which are published in the **Graduate Bulletin.**

Anthropology

A major in anthropology requires a minimum of twenty-seven (27) semester hours in anthropology including ANT 211, 212, 213, 214, and 413.

A minor requires a minimum of twenty-one (21) semester hours including ANT 211 and 413.

Philosophy

A major in philosophy requires a minimum of twenty-seven (27) semester hours in philosophy, including PHI 151, 251, 252, and 253.

A minor requires a minimum of twenty-one (21) semester hours including PHI 151 and 253.

Anthropology and Religion

A minor requires a minimum of twenty-one (21) semester hours, including ANT 211, with not less than nine (9) semester hours being drawn from either anthropology or religion.

Philosophy and Religion

A minor in philosophy and religion requires a minimum of twenty-one (21) semester hours with not less than nine (9) semester hours being drawn from either area, including PHI 151.

DEPARTMENT OF COMMUNICATION

Stanford P. Gwin, Chairman

Albers, Ardoin, Bishop, Fowler, George, Hall, Johnson, Matthews, Tucker, Waite, Wiggins

The Department of Communication offers a student an opportunity to study for a career in journalism, broadcast journalism, photojournalism, public relations, business and industrial communication, advertising, broadcasting, film, public address, or speech and journalism education. The department also participates in interdisciplinary programs in American Studies and Linguistics. The Bachelor of Arts and the Bachelor of Science degrees are offered in most of these areas.

Career program students are responsible for fulfilling the College of Liberal Arts requirements in addition to the specific requirements of each intended career area. However, the programs outlined represent guidelines only. Each student is expected to prepare a personal career curriculum with the assistance of an adviser.

Majors are required to participate for six quarters in at least one of three practical communications activities: THE STUDENT PRINTZ, WMSU, or intercollegiate debate.

Any student expecting to take courses in journalism should understand that a typing capability is essential. Those students with no typing skills should plan to take typing very early in the program.

The non-departmental courses in all programs propose a general background for the student with undetermined career aims. A student with a precise career objective (such as agency public relations or speechwriting) should focus on supporting the desired career in planning his program with his adviser.

Speech education and communication majors must minor outside the department. No students in the department may minor in communication.

COMMUNICATION

The communication program is designed to prepare students for careers in public relations or business and industrial communications. Candidates are advised to obtain practical experience in mass and interpersonal communication concurrent with their academic program. A broad background in the liberal arts and social sciences is desirable.

Students desiring a minor in communication should work out a pro-

gram, in conjunction with their major adviser, from among these suggested courses: COM 200, 407, 410; JOU 102, 421, 422, 425; RTF 425, 472.

PUBLIC RELATIONS PROGRAM

Students working in the Public Relations Program are required to take the following courses in consultation with the major adviser: JOU 102, 301, 312, 313, 402, 421, 422, 425; COM 407, 410, 417: RTF 302, 311, 440; and PA 311. Recommended communication electives are JOU 140, 311, 331, 403; RTF 271, 330, 445, 472; PA 315, 330.

Selections should be carefully made with adviser assistance to be relevant to career aims; however, every public relations student is urged to acquire as much media production skill as possible.

BUSINESS AND INDUSTRIAL COMMUNICATION PROGRAM

Students who are working in the Business and Industrial Communication Program are required to take the following courses: JOU 102, 140, 301, 311, 312, 313, 315, 340, 421, 425; COM 410, 417, 492.

JOURNALISM

Birthney Ardoin, Director

The journalism area offers sequences in news-editorial and photojournalism. These programs are designed to prepare students for careers in the news media as writers, editors, reporters, and photographers.

Flexibility in the selection of courses outside of the department is encouraged so that students can formulate individualized career goals.

Students minoring in journalism are required to complete a minimum of twenty-one (21) semester hours. Courses should be approved by the Director of Journalism.

All majors and minors are required to do practical work on **THE STUDENT PRINTZ.** Others are invited to participate in the publication of the paper.

NEWS-EDITORIAL PROGRAM

A major in the news-editorial sequence requires a minimum of thirty (30) semester hours, including JOU 102, 311, 313, 402, 403, 450 and 460.

PHOTOJOURNALISM

A photojournalism major requires a minimum of thirty (30) semester hours including JOU 102, 140, 340, 402, 440, 450, and 460.

PUBLIC ADDRESS

The Public Address Program is designed to prepare students for careers as speechwriters and consultants, as well as to prepare the potential graduate student.

PA 112, 210, 310, 311, 315, 330, 403
COM 200
JOU 102, 301
RTF 472

Suggested Minor Program: Select at least seven courses from SOC 440, 460, 471; ANT 311; GHY 331; PSY 450; PS 303, 425, 433; HIS 300, 440, 441, choosing from a minimum of three areas.

Students minoring in public address are required to complete twenty-one (21) hours of which PA 111, 210, 311 are recommended. All minor programs are to be selected with the approval of the Director of Public Address.

RADIO-TELEVISION-FILM

James L. Hall, Director of Broadcasting

BROADCAST JOURNALISM PROGRAM

Broadcast journalism is designed to prepare students for careers in radio and television news. The broadcast journalism major should be in the Bachelor of Arts degree curriculum.

JOU 102, 311, 402, 403
RTF 302, 311, 320, 375, 440, 472
PA 210, 315
COM 200, 417

Suggested Minor Program: Select at least seven courses from SOC 440, 460, 471; ANT 311; GHY 331; PSY 450; PS 303, 425, 433; HIS 300, 440, 441, choosing at least one from each of three areas.

BROADCASTING PROGRAM

This sequence is programmed for that student who seeks to work in broadcasting as an announcer, producer, director, writer, or in documentary production for radio and television.

RTF 302, 311, 320, 330, 371, 375, 417, 440, 447, 460
COM 200, 417, 472

Suggested Minor Program: Select at least seven courses from ENG 321, 332; PA 210, 315, 330; JOU 102, 301, 340, 440, THE 111

FILM PROGRAM

Lawrence C. Albers, Director of Film

Career programs are designed to prepare the graduate for positions with television station film units, motion picture production companies, industrial in-house film units, as well as federal and state agencies.

RTF 270, 271, 310, 371, 375, 377, 471, 472, 477
JOU 102
COM 200, 417

Students minoring in film are required to complete twenty-one (21) hours. The department will cooperate with the student's major professor in selection of courses.

Suggested Minor Program: Select at least seven courses from ENG 321, 472, 454, 455; THE 120, 200, 320, 412; ART 101, 102, 103, 261, 362; SOC 240, 440; JOU 301, 340, 440, 421; COM 340, 461; RTF 425.

GENERAL SPEECH EDUCATION

The general speech education program is designed to prepare students academically and professionally to teach speech and supervise speech activities on the secondary level and to pursue graduate level study. The public address major working toward the Bachelor of Science teaching degree must meet general and professional education requirements, including a minor in secondary education, in addition to meeting departmental requirements. Speech education majors are required to participate actively in at least one season of intercollegiate debate and one major theatre production. The following program will fulfill the subject matter and professional requirements:

	Hours
PA 111, 112, 210, 310, 311, 315, 330	19
PA or COM electives above 300	9
COM 200	3
THE 111, dramatics elective	6
CIS minor requirements	27

Additional elective theatre courses are recommended. Consult the chairman of the Department of Theatre Arts.

JOURNALISM EDUCATION

The journalism education program is designed to prepare students academically and professionally to teach journalism and supervise publications on the secondary level and to pursue graduate level study. The journalism major working toward the Bachelor of Science teaching degree must meet general and professional education requirements, including a minor in secondary education, in addition to meeting departmental requirements.

Majors must complete thirty (30) hours in journalism, including JOU 102, 140, 311, 313, 315, 331, and 402. To meet the special requirements of teacher certification, the candidate should also meet the special requirements of a major in a related subject matter field, such as English or social science.

DEPARTMENT OF ENGLISH (ENG—224)

Marice C. Brown, Chairman

H. Anderson, Bahr, D. Berry, Breland, Brinegar, Cooper, Donnan, W. Everett, Freeman, Kay, Lasater, J. Lewis, McCartney, McCraw, McRaven, C. Moorman, O'Hare, Orange, Phillips, P. Prenshaw, Richardson, C. Skates, J. A. Smith, Stamper, Stringer, Tharpe, G. Weaver, M. Weatherford, Weathersby.

A student may obtain an undergraduate English major under a program leading to a Bachelor of Arts or a Bachelor of Science (teaching or non-teaching) degree. For assistance in determining the appropriate program he should consult his major adviser. For information on the master's and the Doctor of Philosophy programs he should consult the **Graduate Bulletin.**

Each undergraduate must complete the core courses of his particular college as listed on preceding pages of this catalog.

An undergraduate major in English must take a total of thirty-six (36) hours beyond the freshman level of which at least twenty-one (21) hours must be at the junior and senior level, and it is strongly recommended that he take twenty-four (24) hours at that level. Students expecting to use English as a teaching minor in Mississippi should be aware that the state requires for certification in English a minimum of thirty (30) semester hours of English or twenty-seven (27) hours of English and three (3) of speech.

A student should take some sophomore level work before enrolling in junior level courses and some junior work before enrolling in senior. He must be certain that he includes among his advanced courses at least one in each of the following categories: (1) English or World Literature before 1700 or Language; (2) English or World Literature after 1700; (3) American Literature. If he wishes to get teacher certification, he must include among his courses one advanced course in grammar and two in English literature, of which at least one must be in Shakespeare.

An undergraduate student minoring in English must take a total of twenty-four (24) hours in the department; at least nine (9) of these hours must be at the junior or senior level.

The Center for Writers is a part of the Department of English. It is intended to provide within an academic environment the optimum conditions for students who write or want to write poetry, fiction, or nonfiction prose.

DEPARTMENT OF FOREIGN LANGUAGES (FL—228)

Roger Johnson, Jr., Chairman

E. Anglin, Austin, Buckley, Fontecchio, Harmon, McCullough, R. Moorman, Neumann, J. Roberts, Siverio, Thornton

Candidates for either the Bachelor of Arts or the Bachelor of Science degree may choose a major or minor in the language areas of French, German, Spanish, Russian, or classics. The requirement for a major is at least twenty-seven (27) hours of credit; the minor requires eighteen (18) hours. (Students choosing to major or minor in classics must take both Greek and Latin for a total of the necessary hours of credit.) Language areas are indicated in the course titles. Where no single language is named, the course is open to students studying any foreign language, and such courses are applicable toward the degree programs in the various language areas.

Students may begin programs of specialization at an early date in their foreign language training. In cooperation with other departments at this University, the Department of Foreign Languages has established a number of formal and informal programs for the student who wishes to prepare for a career in which bilingualism can be of an advantage. The department offers, for example, courses that emphasize or supplement training in the following career areas: linguistics, translation, banking and business administration in connection with Common Market countries, government and diplomatic service, the military, foreign language teaching, literature, resource management, community and regional planning, and bilingual secretarial skills. Because such programs require individual advisement and counseling, students should consult with a foreign language adviser as soon as possible so that a workable curriculum can be devised. Since the beginning language courses are combinations of historical, cultural, and language material, they can function as electives for students in liberal arts, the sciences, and education, even though these students are pursuing neither a major nor minor in the department.

Most students taking a foreign language begin their study at the elementary level. If French is to be the language studied, the beginning student may enroll in **French: One,** and then continue through the next four basic courses: **French: Two, French: Three, French: Four** and **French: Five.** (Of course, those who have already studied the language they wish to continue here will enter the curriculum at an appropriate level.) After the basic courses, students normally proceed with the appropriate **Conversational Practicum** and **Advanced Grammar and Composition.** The courses, **Poetry, Prose Fiction,** and **Drama** may be taken as soon as the student is able to handle basic reading material in the foreign language he is studying. Because proficiency, and not hours of credit, is the basis for continuing study of a language, every course in the department has as its preprequisite the consent of the instructor.

Students interested primarily in literature should include a selection from FL 302, 303, 304, and 402, as well as an appropriate sequence in **History of Literature.** Those emphasizing language arts, linguistics, or translation skills should include FL 200, 300, 301, 400, and 403. Prospective teachers should enroll in FL 404, in addition to regular language courses and the courses necessary to meet requirements for teacher certification. Those wishing to gain language skills for becoming bilingual secretaries, public relations consultants, businessmen, resource managers, airline stewardesses or stewards, area specialists, etc., should include language study through the **Conversational Practicum, Advanced Grammar and Composition,** and FL 403.

Any student taking a foreign language course has access to the Foreign Language Laboratory and may be required to attend laboratory

sessions each week in connection with regular classroom meetings. Required laboratory work is at the discretion of the instructor and may vary from week to week.

DEPARTMENT OF GEOGRAPHY (GHY—268)

William M. Roberts, Chairman

Cross, Gladden, Kelley, McKee, Mealor, Traylor, Wales

Geography is concerned with the nature, development, and significance of the spatial attributes of the surface and atmospheric envelope of the earth. The discipline attempts to explain the variable character of the earth through an examination and analysis of the arrangement and interrelationships of a multitude of relevant cultural and natural phenomena.

As a university discipline, geography at USM serves a multiple objective: (1) to contribute to the student's broad understanding of the world, its conditions, and its peoples; (2) to prepare the student who desires to teach at the secondary level with a specialty in geography, and, (3) to prepare students for advanced work and professional careers in geography in areas such as university teaching, community and regional planning, resource management, land-use analysis, industrial location analysis, and cartography. The Department of Geography offers a full range of courses designed to satisfy all three of these objectives.

Undergraduate courses in geography fall into one of the three following groups: (1) *topical*—courses in this group, such as economic geography and environmental climatology, consider the geographical or spacial aspects of specific categories or processes, (2) *regional*—such courses deal with certain sections of the earth (e.g., Europe) and generally afford a broader view of the forces of social, economic, physical, and political interaction, and (3) *techniques*—this group includes courses in aerial photograph interpretation, quantitative methods, cartography, computer mapping, and remote sensing that provide the student with the tools necessary for geographic and related careers.

Requirements for Major

A student majoring in geography may select one of several alternative plans. He may work toward the Bachelor of Arts, the Bachelor of Science teaching, or the Bachelor of Science non-teaching degree. The student's choice of program should be determined by his plans for the future and in close coordination with his adviser.

A. Curriculum—College Core.

Regardless of his degree plan, the student must include the appropriate core curriculum subjects for his degree. The student majoring in geography should elect Geography 103 among his core subjects. Non-geography majors may elect Geography 103, 331, 341, or 350 to meet core requirements—although 103 is recommended for all beginning students.

B. Curriculum—Teaching Requirements.

The student working toward the Bachelor of Science teaching degree must include in his program the courses leading toward the Class A teaching certificate.

C. Curriculum—Department Requirements.

The student wishing to major in geography, regardless of his degree plan, must take thirty-six (36) hours in the Department of Geography. Required of all majors are GHY 210, 223, 224, 331 and 350. In addition, all majors are required to take at least three (3) additional topical courses, one (1) 300-level regional course, and one (1) technique course

above the 200-level. The remaining hours for the major are elective within the department. GHY 103 may be considered an elective course when computing total hours for the major.

D. Curriculum—Minor and Electives.

In addition to the core requirements, the certification requirements, and the departmental requirements, the student majoring in geography must also complete the requirements for a minor, preferably in a related field. Courses not used to fulfill any of these requirements are free electives and may be taken in any department of the University.

Requirements for Minor

The student minoring in geography must take twenty-one (21) hours in the department. Recommended for the minor are GHY 103, 210, 223, 331, 341, and 350.

DEPARTMENT OF HISTORY (HIS—272)

John Ray Skates, Chairman

Anglin, Bowers, R. Brent, Ciccarelli, Conklin, Edwards, Davis, Fike, Gonzales, Guice, Harper, P. Kalisch, McCarty, McMillen, Scarborough

The Department of History participates in programs leading to the degrees of the Bachelor of Arts, the Bachelor of Science, the Master of Arts, the Master of Science, the Master of Philosophy, and the Doctor of Philosophy. For the master's and doctorate degrees please consult the **Graduate Bulletin.**

Major Requirements

An undergraduate student majoring in history may elect either the Bachelor of Arts or the Bachelor of Science degree program. He may certify to teach in the field of social studies at the secondary level under either of the above degree plans by taking the necessary education and psychology courses. He should consult with his adviser to determine which degree plan to follow and what education and psychology courses are required.

A. **Curriculum—College Core**

The student working toward any degree must include in his curriculum the required core subjects.

B. **Curriculum—Professional Requirements**

The history major working toward the Bachelor of Science teaching degree with a secondary school license in social studies must include in his program (1) the education courses required for the Class A teaching certificate (education will normally be the minor for a history major seeking a teacher's license); and (2) the following social studies courses, either as core or as electives: Economics 200 or ECO 255 and 256; Geography 103; Political Science 101; History 341; Sociology 101 or 311; six hours of Social Studies electives, not to include religion, philosophy, or psychology.

C. **Curriculum—Departmental Requirements**

The students majoring in history must take thirty-three (33) hours, which regardless of his degree plan, must include History 101, 102, and 140, 141.

Minor Requirements

The student minoring in history should take eighteen (18) hours in history which should include HIS 101, 102, and 140, 141.

* In September, 1975, certification requirements in social studies will be increased to six (6) hours of economics, three (3) hours of Mississippi History, six (6) hours of political science, six (6) hours of geography, three (3) hours of sociology, and nine hours of Social Studies electives, not to include religion, philosophy, or psychology.

DEPARTMENT OF MILITARY SCIENCE (MS—276)

Wilfred E. Irish, Jr., Chairman

Clark, Greenwood, Harkins, Henry, Norris, Raines, Roberts, Senter, Shaw, Vowell, Whitworth

AUTHORIZATION

The University of Southern Mississippi was authorized by the Department of the Army to activate a unit of the Senior Division Reserve Officers Training Corps (ROTC) on April 3, 1950. The unit was organized June 14, 1950, under the authority of the Act of Congress, June 3, 1916, and subsequent amendments thereto.

MISSION

The mission of the ROTC program is to attract, motivate, and prepare selected university students for commissioning as officers in the United States Army upon graduation. Academic achievement in the major field of study is of primary importance for students enrolled in the ROTC program.

PROGRAM OF INSTRUCTION

The ROTC program of instruction encompasses three years. Students entering in a three-year degree program must enroll in the ROTC program in their first year. Four-year degree students may delay entry into the ROTC program until their second year of enrollment in the University.

The ROTC program of instruction is divided into two courses. The Basic Course is taught in one year, and is designed to acquaint the student with the US Army. Three semester hours of credit are given for successful completion of the Basic Course.

Upon successful completion of the Basic Course a student makes application for enrollment in the Advanced Course. After acceptance into the Advanced Course the student spends two academic years (3 quarters each year) in preparation for commissioning upon graduation. Fifteen semester hours of credit are earned. The University has waived the requirement for a minor degree for those graduates completing Basic and Advanced ROTC programs. A subsistence of allowance of $100 per month is paid during each academic year of the Advanced Program. The student will be required to participate in a six-week summer camp while enrolled in the Advanced Program.

JUNIOR COLLEGE TRANSFER STUDENTS

Junior College transfer students desiring to enroll in the ROTC program at the University of Southern Mississippi should contact the Department of Military Science or seek information from the junior college counseling office for details concerning enrollment procedures. Students with no prior service or Military Science instruction who desire enrollment in the advanced Military Science program must submit their application prior to 15 February, prior to the academic year in which they intend to enroll at the University.

MILITARY SERVICE ORGANIZATIONS

ROTC cadets have the opportunity to participate in several organizations within the Corps of Cadets. These include the Pershing Rifles (drill team), the ROTC Rifle Team, Scabbard and Blade (Honorary Military Society), ROTC Flight Training, and the Ranger Company.

ROTC SCHOLARSHIP PROGRAM

The Army ROTC Scholarship Program is designed to offer financial assistance to outstanding young men in the four-year ROTC program who are interested in the Army as a career. There are four types of scholarship: Four-year, Three-year, Two-year, and One-year. Each scholarship provides free tuition, textbooks, and laboratory fees in addition to paying $100.00 per month for the period that the scholarship is in effect.

Four-year scholarships are offered to select young men who have graduated from high school or received equivalent credit from an acceptable state or national agency. Applicants must be enrolled in or acceptable for enrollment in the University. Students desiring to apply for the Four-year Scholarship must do so between September 1 and January 15 of the year before the scholarship is to begin. Information and application packets for the Four-year Scholarship may be obtained from the high school counselor or by writing to:

Army ROTC
P. O. Box 12703
Philadelphia, PA 19134

The Department of the Army will select all four-year scholarship recipients.

Three-year scholarships are offered to students who have completed their first year of Army ROTC.

Two-year scholarships are offered to students who have completed the Basic Course of Military Science and have been accepted for enrollment in the Advanced Course.

One-year scholarships are offered Advanced Course students who have completed their third year of Army ROTC.

Students desiring to apply for the one-year, two-year, or three-year scholarships will do so with the Professor of Military Science at the University. Applicants will be screened by a scholarship committee and selections will be forwarded to the Department of the Army for approval.

DEPARTMENT OF POLITICAL SCIENCE (PS—280)

William H. Hatcher, Chairman

Caudill, Doumas, Hinton, Landry, Marquardt, Tatalovich, Tuchak, Wilber

The Department of Political Science offers a major and minor to prepare students for public service and law school among other careers; specifically the department offers courses leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Philosophy, and Doctor of Philosophy degrees.

(1) **Requirements for an Undergraduate Major.**

In addition to PS 101 the political science major must take at least one course from five of the six fields of political science. The remaining twelve hours are electives in political science.

(2) **Requirements for an Undergraduate Minor.**

The department recommends that the minor include courses from at least four of the six fields.

(3) The Six Fields of Political Science.

Political Theory. 320, 420, 421, 425.
American Government and Politics. 301, 302, 303, 401, 402, 404, 406, 407, 408, 409.
International Relations. 330, 331, 431, 432, 434, 435.
Comparative Government. 350, 351, 450, 451, 452, 453, 454, 455, 456, 458.
Public Administration. 470, 471, 472, 473.
Public Law. 480, 481, 482, 485.

(4) Economics 401, and History 300, 412, and 444 may be elected as political science if approved by the student's adviser.

DEPARTMENT OF SOCIOLOGY (SOC—292)

Donald R. South, Chairman

Bourgeois, Burrus, Himelstein, Panko, Shoemaker, Thagard, Turner

The Department of Sociology offers a major and minor with an optional emphasis on social work. A minimum of twenty-seven (27) semester hours (beyond SOC 101) is required for a major in General Sociology or the Social Work emphasis. Twenty-one (21) hours are required for a minor in either program.

Core curricula of the University, the College of Liberal Arts, and either the Bachelor of Science or Bachelor of Arts degree programs should be followed with care. Sociology majors who wish to certify to teach on the secondary education level should take note of these requirements in the section of the catalog dealing with teacher training. It should be noted that a student may certify to teach even though enrolled in the College of Liberal Arts.

Sociology majors will complete a minor of twenty-one (21) hours in another field of their choice. Courses not needed to fulfill major, minor, or core requirements are free electives and may be taken in any department of the University.

Course Requirements and Information

A. Sociology 101 is a prerequisite to all other course offerings.
B. All sociology majors (General and Social Work emphasis) must take the following courses: SOC 101, 310 or 311, 460, 480, 481 or 482.
   1. Students pursuing the General Sociology major must also take SOC 461. The remaining twelve (12) hours may be selected from any of the departmental offerings with the exception of the Social Work courses.
   2. Students choosing the Social Work emphasis should also take SOC 230, 330, and 431.
C. Students preparing for careers in social work may obtain within the department both class room and practical experience in that area as well as a foundation in behavioral science. An adviser will help in the selection of courses from other disciplines which will round out the students preparation for performing social work services.

DEPARTMENT OF SPEECH AND HEARING SCIENCES (SHS—296)

Robert C. Rhodes, Chairman

DuBard, Fitch, Marshall, Schaub, Thomas, Winger

The Department of Speech and Hearing Sciences is concerned with the body of knowledge and scientific study that pertains to both normal and abnormal speech, hearing, and language. The department provides the environment in which information in this area can be advanced effectively and knowledge can be disseminated.

Bachelor of Arts teaching degrees and Bachelor of Science teaching degrees are offered by the department. At the undergraduate level, the Bachelor of Arts or the Bachelor of Science degree includes a number of related disciplines including Speech Pathology, Audiology, Language Disorders, and Education of the Deaf. Specialization in one or more of these specific areas is undertaken at the graduate level. For information concerning master's or doctoral degrees, consult the **Graduate Bulletin.**

The Bachelor of Arts or Bachelor of Science teaching degree is required of students who wish to meet the certification requirements of the Mississippi State Office of Special Education in speech and hearing.

Requirements for Major

Students seeking the Bachelor of Arts or Bachelor of Science teaching degree in any of the above fields are responsible for fulfilling the College of Liberal Arts requirements in addition to the specific requirements listed below:

SHS 201, 202, 211, 221, 401, 402, 403, 411, 412, 413, 414, 421, 431, 432, and 433 or 439.

SPE 310 (1 hour), 311 (1 hour), 312 (6 hours), 400, and 411.

EPY 370, 372, and 374.

Enrollment in SPE 310, 311, or 312 is contingent upon permission of the instructor.

The USM Speech and Hearing Clinic located in the Honor House and the School for Children with Language Disorders in the George Hurst Building are administered by the Department of Speech and Hearing Sciences to provide remedial services, educational and training experiences for students, and settings for clinical research. The Acoustics Laboratory in the Honor House is operated by the department for the purpose of conducting pure and applied research dealing with speech and auditory processes.

The department has working agreements with several off-campus clinical facilities around the state for clinical practicum experience.

SCHOOL OF NURSING

Elizabeth C. Harkins, Dean

Bain, Denkler, Pool

PURPOSE AND ORGANIZATION

The primary purposes of the School of Nursing are to provide the baccalaureate student with a sound preparation for nursing practice and the graduate nurse with continuing education experiences. To fulfill these major purposes, the School of Nursing is divided into two departments—Baccalaureate Studies and Continuing Education Studies. The program of baccalaureate studies offers broad preparation in general education as well as education for the professional practice of nursing. Courses in the liberal arts and humanities, the sciences, and the professional components are selected to prepare the student to assume effectively his role as an individual, as a citizen, and as a professional practitioner. The continuing education program provides a variety of workshops and conferences, special programs, and field services for the practicing nurse.

HISTORY

Following a year of planning and curriculum development, the first students were admitted to the School of Nursing in September, 1967. The School of Nursing received National League for Nursing accreditation in 1969. The first Bachelor of Science in Nursing degrees were conferred in May, 1969.

ACCREDITATION

The School of Nursing program is accredited by the National League for Nursing. The School is approved by the Board of Trustees of State Institutions of Higher Learning and is a member of the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing.

DEPARTMENT OF NURSING—BACCALAUREATE STUDIES (NSG-070)

Beatrice J. Kalisch, Chairman

August, Balmat, Bates, Boyett, M. Bryant, Bryson, DuPuy, Freeman, H. Hales, Hall, Hobson, Holloway, Linton, McConnell, McHenry, Payton, Rater, Richeson, Scribner, M. Sisemore, Stovall

The Department of Nursing—Baccalaureate Studies offers a program of study leading to the degree of Bachelor of Science in Nursing. Upon completion of the Program, the graduate is prepared to function as a professional nurse practitioner in a variety of settings.

ADMISSION

Applicants for admission to the Baccalaureate Program of the School of Nursing must fulfill the general University requirements as described in the Admission Section of the **Bulletin.** In addition, the applicant must meet the progression criteria of the School of Nursing (see Promotion Policies).

Individual advisement is provided for all students. A special review and program plan is prepared for students with advanced standing.

PROMOTION POLICIES

Students must (1) maintain a 2.0 grade point average in the natural and behavioral science courses—biology, chemistry, psychology and

sociology; and (2) have earned a 2.3 grade point average at the completion of the Level II nursing courses. A 2.3 grade point average in nursing courses is required for graduation.

STUDENT ADVISEMENT

The Department of Baccalaureate Studies faculty are responsible for academic counseling of all students enrolled in the Program. Each student admitted to the Program will be assigned an adviser. The adviser will assist the student in planning a program of study toward the degree, approve his schedule each quarter, provide counsel, and sign his application for degree.

FINANCIAL AID

There are scholarship and loan funds available exclusively to students enrolled in the School of Nursing. Nursing students are also eligible to apply for assistance through other resources provided to students enrolled in the University. All applications for assistance should be forwarded to the Director of Student Aid and Scholarships.

EXPENSES

The general fees and expenses are the same for nursing students as for other University students. Additional expenses incurred by nursing students such as uniforms, books, insurance, student nurse organization fees, etc., are estimated as follows:

1st Year	2nd Year	3rd Year
$100.00	$75.00	$75.00

Travel: Students are responsible for arranging transportation to off-campus hospitals and other agencies which constitute part of the program.

CURRICULUM

The program of study for the Bachelor of Science in Nursing includes specified requirements in the physical and biological sciences, in the social and behavioral sciences, and in the humanities. These courses are selected and placed for their foundational and supportive contributions to the study of nursing. The clinical nursing courses combine theory and practice. The clinical laboratory classes are conducted in demonstration rooms and in settings where nursing care is needed.

The curriculum in nursing is sequential; progression depends on successful completion of required courses in the preceding year.

Registered nurses may establish by examination a maximum of twenty-one (21) hours of credit in nursing. (See also Challenge Examinations Section.)

A student majoring in nursing must complete 130 hours including fifty (50) hours in nursing, the major, twenty-one (21) hours in a selected minor, and fifty-seven (57) hours required by the cores of the University and the School of Nursing. Upon completion of this program of study the student is eligible to write the examination for licensure in the State of Mississippi.

First Year

	Hours
Nursing 120, 121, and 122 or 150*	6
Biology 220, 221, and 222	9
Chemistry 101,** 251, and 252	9
English 101 and 102	6

Mathematics 100, 101, or 112	3
Physical Education or ROTC/AFROTC***	2
Psychology 110	3
Public Address 111	3
Sociology 101	3
	44

*May be taken in lieu of NSG 120, 121, 122
**If no high school chemistry, CHE 100 is prerequisite.
***Not required for registered nurses.

Second Year

	Hours
Nursing 301, 302, 303, 305, 306	15
Anthropology 211 or 212	3
Microbiology 401 and 402	6
Psychology 375 or EPY 370 and EPY 372; PSY 455 or SOC 450; PSY 360 or SOC 460	3-12
Public Address 330	3
Sociology 314; SOC 450 or PSY 455; SOC 460 or PSY 360	3-9
Humanities Electives—2 Courses	6
	45-48

Third Year

	Hours
Nursing 410, 420, 430, 440, 442, 450	29
Management 360	3
Genetics 451	3
Psychology 436	3
	38

NURSING—CONTINUING EDUCATION STUDIES

Elizabeth G. Benjamin, Chairman
McGrew, Sommers

The Continuing Education Studies of the School of Nursing offers credit and non-credit courses, workshops, and conferences for registered nurses throughout the State of Mississippi. The purpose of the program is to increase the quality of nursing care by providing means for nurses to update nursing knowledge and to acquire new knowledge and skill.

COLLEGE OF SCIENCE AND TECHNOLOGY

Shelby F. Thames, Dean

William G. Brundage, Assistant to Dean
George F. Pessoney, Research Coordinator

The College of Science and Technology provides the student training in all of the classical fields of science, several contemporary multidisciplinary areas, and a host of "career-oriented" technology degree programs.

The College of Science and Technology is organized into ten departments and the Center for Technology Studies. The departments include Biology, Chemistry, Computer Science and Statistics, Geology, Mathematics, Medical Technology, Microbiology, Physics and Astronomy, Polymer Science, and Science Education.

The concept of "career-oriented" training is stressed within the ten departments and the associated degree programs in Building Construction Technology, Environmental Technology, Industrial Technology, Mechanical Technology, Computer Technology, Food Science and Technology, Plastics Technology, Architectural Technology, the Allied Health Sciences, the pre-professional programs, the pre-engineering program, and the Institute of Genetics.

The College shares, with the College of Education and Psychology, joint responsibility for the Department of Science Education, embracing a sequence of courses titled Fundamentals of Science, and offering a major in science education for teachers.

A student wishing to obtain either a Bachelor of Science or Bachelor of Arts degree from within the College of Science and Technology must complete the following College of Science and Technology requirements:

	Hours
English 101, 102, and 332	9
History	6
Science (includes Fundamentals of Science) fifteen hours; a minimum of 9 must be in laboratory sciences	15
Mathematics (must be above MAT 100)	9
Twelve hours from the following areas, with no more than three hours from any one area: political science, geography, sociology, psychology, philosophy, allied arts, economics	12
Physical Education or ROTC/AFROTC	2-3
Foreign language may be required at the option of the department.	

The student seeking a Bachelor of Arts degree must complete three (3) additional hours of English and meet the following requirement:

*Foreign Language	6-9

*Students who have two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six semester hours at the 200 level or above.

ENVIRONMENTAL SCIENCE INSTITUTE (ESC—355)

Charles R. Brent, Director

Goldsmith

The College of Science and Technology offers an interdisciplinary degree in Environmental Technology designed to train environment-conscious scientists with field experience in the measurement of environmental variables and with the capability of making sound ecological decisions in matters of pollution control. The curriculum emphasizes the

chemical and biological aspects of the environment with enough physics and geology interspersed to provide majors with an understanding of the distribution of pollutants. Persons with this modern training will be needed by industry, government, and educational institutions if man is to clean up his environment and keep it clean.

Requirements for a major in environmental technology leading to the Bachelor of Science degree are the following:

	Hours
CHE 101, 102, 103	9
BIO 101, 102	8
ESC 105, 205, 305	6
GLY 101, 103	6
PHY 101, 102	6
MAT 171	3
CSS 211, 212 or CSS 240, 340 or MAT 276, 277	6
CHE 311, 312, 351, 352, 353	17
ESC 301	3
BIO 449, 461, 462, 440, 466	15
MIC 101, 301, 471	9
GLY 306	3
PHY 477 or GHY 425	3
GHY 370 or 412 or 474	3
ESC 401, 402, 411, ESC 492	13
Total for interdisciplinary major	110
College of Science and Technology degree requirements not listed above	30
Total for degree	140

INSTITUTE OF GENETICS

Karen M. Yarbrough, Director
Howard, Stoddard

The Institute of Genetics provides facilities for undergraduate and graduate education in genetics and services to University personnel and students as well as families throughout the community and region. Information regarding academic requirements may be obtained from the **Undergraduate Bulletin** or the **Graduate Bulletin** under the Department of Microbiology.

Members of the Institute's staff operate within the framework of the Center for Health Related Sciences in order to provide coordinated, comprehensive services. The Institute's services include chromosomal culturing and karyotyping, sex chromatin tests, dermatoglyphic studies and genetic counseling. These services are available at nominal fees on a referral basis or by applying directly to the Institute of Genetics.

PRE-PROFESSIONAL CURRICULA

William G. Brundage, Director

The University of Southern Mississippi provides pre-professional training for students who plan to enter the fields of medicine, dentistry, veterinary medicine, pharmacy, physical therapy, and optometry. Degree programs are offered in medical records administration and medical technology.

RECOMMENDED PROGRAM FOR MEDICAL RECORDS ADMINISTRATION

Donald E. Norris, Coordinator

Those taking a major in Medical Records Administration follow the curriculum outlined below at the University of Southern Mississippi. The terminal, professional year is taken in the Department of Medical Records Administration at the University of Mississippi Medical Center; acceptance to the professional year is highly competitive and solely at the discretion of those administering that part of the program. Upon completion of the total curriculum candidates receive the B.S. degree from the University of Southern Mississippi.

Typing is a necessary skill for those in this program, and CHE 100 is required of those who have not had high school chemistry.

		Hours
BIO 101	Principles of Biology	4
BIO 102	Diversity of Life	4
BIO 220	Human Anatomy and Physiology I	3
BIO 221	Human Anatomy and Physiology II	3
BIO 222	Human Anatomy and Physiology III	3
ENG 101	Language	3
ENG 102	Literature	3
ENG 332	Advanced Expository Prose	3
MAT 101	College Algebra	3
CSS 100	Introduction to Computing	3
CSS 211	Statistical Methods I	3
CSS 212	Statistical Methods II	3
CSS 240	Introduction to Programming	3
FL 111	Foreign Language	9
BED 300	Business Writing	3
BED 352	Filing Systems and Records Management	2
BED 450	Office Appliances	3
BED 460	Office Management	3
MGT 360	Principles of Management	3
MGT 364	Personnel Management	3
MGT 454	Human Relations	3
PSY 110	General Psychology	3
NSG 302	Introduction to the Pathology of the Physiological Systems	2
HTH 420	Communicable and Chronic Disease in Man	3
HIS 101	World Civilization to 1648 AD	3
HIS 102	World Civilization Since 1648 AD	3
ECO 100	Introduction to Economics	3
AA 100	Allied Arts	3
SOC 101	Introduction to Sociology	3
PE	Physical Education or ROTC/AFROTC	2
		95

RECOMMENDED PRE-MEDICAL AND PRE-DENTAL PROGRAM

B. C. Smith, Coordinator

The pre-medical and pre-dental curriculum is offered to meet the needs of the student wishing to enter an approved school of medicine or dentistry. The student should seek the counsel of his advisers in selecting courses that will meet the specific requirements of the medical or dental school which he intends to enter. This is especially true of science, social science, and language requirements.

The keen competition for admission to medical and dental schools

makes it imperative that the student plan his curriculum carefully and maintain a superior scholastic standing. At the conclusion of the sophomore year the student should consult with his adviser to choose an undergraduate major either in biology or chemistry. A three-year pre-medical and pre-dental program is outlined below; however, if the student wishes to receive a bachelor's degree before transferring to professional school, a four-year curriculum may be worked out with the advisers. A student entering medical or dental school after the junior year may be awarded a bachelor's degree by the University of Southern Mississippi upon completion of the first year of medical or dental school if the core curriculum requirements outlined elsewhere in this catalog are met, and provided that the thirty-five (35) hours of credit he receives for the first year of medical school complete the 128 hours requirement for a degree.

Freshman

	Hours
Biology 101, 102	8
Chemistry 101, 102, 103	9
English 101, 102, 332	9
Mathematics 101, 103, 171	9
Microbiology 101 or Elective	3
	38

Sophomore

Biology 320, 321, 315 or 420	9
Chemistry 351, 352, 353	9
Physics 101, 102, 103	9
Mathematics 276, 277	6
Genetics 402	3
Physical Education or ROTC/AFROTC	2-3
	38

Junior

Biology 411, 420 or 315	6
Chemistry 311, 312 or 421, 422	6
Social Sciences	12
History 101, 102 or 140, 141	6
Advanced Sciences and Electives	6
	36

Senior

Advanced Sciences and Electives	27

RECOMMENDED PRE-VETERINARY PROGRAM

B. C. Smith, Coordinator

Admission to a school of veterinary medicine requires an overall minimum of 82 semester hours of college credit earned prior to acceptance. A four-year veterinary program is available at the School of Veterinary Medicine at Auburn University, Auburn, Alabama, through the sponsorship of the Southern Regional Education Board. Students planning to enter this area of study are encouraged to undertake a program exceeding the minimal requirements and leading to the baccalaureate degree in conjunction with the D.V.M. degree.

Freshman

	Hours
Biology 101, 102	8
Chemistry 101, 102, 103	9

English 101, 102, 332	9
Mathematics, 101, 103, 171	9
Microbiology 101	3
	38

Sophomore

Biology 320, 321, 315 or 420	9
Chemistry 351, 352, 353	9
Physics 101, 102, 103	9
Mathematics 276, 277	6
Genetics 402	3
Physical Education or ROTC/AFROTC	2-3
	38

Junior

Biology 411, 436, 420 or 315	9
Chemistry 311, 312 or 421, 422	9
Social Sciences	12
History 101, 102 or 140, 141	6
Food and Nutrition 362	3
	39

Senior

*Medical Vocabulary	3
Advanced Sciences and Electives	27

*Medical Vocabulary (Auburn Course No. EH 141) is taken by correspondence. Apply directly to the Director of Correspondence Study Program, School of Education, Auburn University, Auburn, Alabama 36830.

RECOMMENDED PRE-PHARMACY PROGRAM

B. C. Smith, Coordinator

The requirement for admission to most schools of pharmacy is two years of pre-pharmacy training. The student should obtain a copy of the catalog of the school of pharmacy which he plans to attend and with his academic adviser adjust his course of study to meet his individual needs.

Freshman

	Hours
Biology 202, General Botany	7
Chemistry 101, 102, 103	9
English 101, 102, 332	9
Mathematics 101, 103	6
	31

Sophomore

Chemistry 351, 352, 353	9
Physics 101, 102, 103	9
Economics 100	3
Psychology 110	3
Sociology 101	3
Microbiology 101	3
	30

RECOMMENDED PRE-PHYSICAL THERAPY PROGRAM

B. C. Smith, Coordinator

The pre-physical therapy curriculum (60 semester hours) is offered to meet the needs of the student planning to enter an accredited school of physical therapy.

The following recommended courses are needed for consideration for admission to the Department of Physical Therapy in the School of Health Related Professions at the University of Mississippi Medical Center.

Freshman

	Hours
English 101	3
Public Address 111	3
Chemistry 101, 102, 103	9
Mathematics 101, 103	6
Biology 101	4
Microbiology 101	3
Allied Arts 100	3
	31

Sophomore

Psychology 110, 375	6
Sociology 101	3
Philosophy 151	3
Biology 321	3
Physics 101, 102, 103	9
Elective	3
History 101	3
	30

RECOMMENDED PRE-OPTOMETRY PROGRAM

B. C. Smith, Coordinator

Students planning to apply to a school of optometry are required to complete two academic years (60 semester hours) of university work.

Freshman

	Hours
Biology 101, 202	8
English 101, 102, 332	9
Chemistry 101, 102, 103	9
Mathematics 101, 103, 171	9
	35

Sophomore

Physics 101, 102, 103	9
Psychology 110	3
Sociology 101	3
Economics 100	3
History 101, 102 or 140, 141	6
Elective	3
	27

RECOMMENDED PRE-DENTAL HYGIENE PROGRAM

B. C. Smith, Coordinator

Candidates for admission to a dental hygiene program should have satisfactorily completed one year (32 semester hours excluding physical education) of study.

The following recommended courses are needed for consideration for admission to the Dental Hygiene Program of the School of Health Related Professions at the University of Mississippi Medical Center.

Freshman

	Hours
English 101, 102	6
Public Address 111	3
Chemistry 101, 102, 103	9
Psychology 110	3
Sociology 101	3
Biology 101 or 202	4
Electives	6
	34

RECOMMENDED PRE-ENGINEERING PROGRAM

Advisers: St. Clair

The following curricula are set up to meet the requirements for admission to most engineering schools. The student should note that in each of the pre-engineering programs there are several electives allowed.

A catalog from the selected engineering school should be consulted before the elective courses are chosen and the physical education or ROTC option for the first year program is made.

Courses that are acceptable at many engineering schools are English 200, 201, 202; Economics 100; Public Address 111; Philosophy 151; Sociology 101; Psychology 210, History 101 and 102 or 140 and 141.

FRESHMAN PROGRAM FOR ALL ENGINEERS

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 171	3	MAT 276	3	MAT 277	3
ENG 101	3	ENG 102	3	CHE 103	3
CHE 101	3	CHE 102	3	ENG 332	3
IVE 121	3	IVE 122	3	ELECTIVE	3
ROTC/AFROTC or PE	1	ROTC/AFROTC or PE	1	ROTC/AFROTC or PE	1
	13		13		13

CIVIL ENGINEERING PROGRAM—SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 378	3	MAT 379	3	MAT 405	3
PHY 201	3	PHY 202	3	PHY 203	3
IVE 325	3	ELECTIVE	6	GLY 101	3
ELECTIVE	3			ELECTIVE	3
	12		12		12

CHEMICAL ENGINEERING PROGRAM—SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 378	3	MAT 379	3	MAT 405	3
PHY 201	3	PHY 202	3	PHY 203	3
CHE 311	4	CHE 312	4	CHE 411	4
IVE 325	3	ELECTIVE	3	ELECTIVE	3
	13		13		13

ELECTRICAL AND MECHANICAL ENGINEERING PROGRAM—SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
ELECTIVE	3	MAT 379	3	MAT 405	3
MAT 378	3	PHY 202	3	PHY 203	3
PHY 201	3	ELECTIVES	6	IVE 325	3
IVE 116	3			ELECTIVE	3
	12		12		12

CENTER FOR TECHNOLOGY STUDIES

ARCHITECTURAL TECHNOLOGY

	Hours
ENG 101, 102, 332	9
History	3
Science	9
Mathematics	6
Social Science (psychology, geography, speech, political science, sociology, or philosophy—maximum of 3 hours in any one field)	6
Allied Arts 100	3
Public Address 111	3
Physics 101	3
PE or ROTC/AFROTC	2
Art 111, 112	6
MAT 171, 276, 277	9
Structures, TEC 375, 376, 377	9
Building Construction, TEC 371, 372, 373	9
Architectural Design, TEC 351, 352, 353	9
Architectural Design, TEC 451, 452, 453	9
Mechanical Equipment and Electrical Systems of Buildings I, TEC 304	3
Architectural Landscaping, TEC 392	3
Architectural Rendering, TEC 393	3
Office Practice and Specifications, TEC 394	3
Surveying, TEC 395	3
ECO 100	3
Mechanical Production Technology, TEC 313	3
Electives	13
Recommended Electives:	
Physics 102, 103	
Management	

Note: Students without high school drafting should enroll in IVE 350 prior to design courses, and those without advanced mathematics courses in high school should enroll in MAT 101 and 103 prior to MAT 171.

BUILDING CONSTRUCTION TECHNOLOGY

	Hours
English 101, 102, 332	9
Science	9
History	3
Mathematics, MAT 101, 103, 112	9
Humanities	12
PE or ROTC/AFROTC	2
Surveying, TEC 395	3
Geology for Construction Technologists, GLY 105	3
Mech. Equip. and Elect. Systems of Bldgs II, TEC 305	3
Illumination, TEC 307	3
Electronics, ESC 411	4
Building Construction I, II, III, TEC 371, 372, 373	9
Structures I, II, TEC 375, 376	6
Electrical Controls and Power Circuits, TEC 306	3
Architectural Design I, II, III, TEC 351, 352, 353	9
Woodworking, IVE 331	3
Office Practice and Specifications, TEC 394	3
Estimating, TEC 378	3
Introduction to Economics, ECO 100	3

Principles of Accounting, ACC 201, 202	6
Personnel Management, MGT 364	3
Industrial Safety, MGT 386	3
Work Methods and Performance Standards, MGT 464	3
Business Law I, FIN 295	3
Electives	12
Recommended Electives:	
Labor Law—MGT 370	3

COMPUTER TECHNOLOGY

(See Department of Computer Science and Statistics, page 174)

ENVIRONMENTAL TECHNOLOGY

(See Environmental Science Institute, page 162)

FOOD SCIENCE AND TECHNOLOGY

	Hours
English 101, 102, 332	9
History	3
Mathematics, MAT 103, 276, 277	9
Statistics, CSS 211	3
ECO 100	3
PE or ROTC/AFROTC	2
Geography, Sociology, Psychology, Philosophy, Allied Arts, (maximum of 3 hours in any one field)	6
Food and Nutrition, F&N 460	3
Marketing, MKT 300	3
MGT 454	3
Biology 101, 102	6
Chemistry 101, 102, 311, 312, 321, 351, 352	23
Microbiology 101, 301, 471	9
Food Microbiology, MIC 461	3
Dairy Microbiology, MIC 462	3
Production Technology, TEC 405	3
Physics 105, 106	6
Intro. to Food Science, FST 101	3
Food Process Engineering, FST 405	3
Food Science I, FST 310	3
Food Science II, FST 311	3
Food and Drug Laws—Standards and Regulations, FST 410	3
Food Analysis I, FST 450	4
Food Analysis II, FST 451	4
Food Processing Technology I, FST 350	4
Food Processing Technology II, FST 351	4
Seminar, FST 489	1
Electives	3

INDUSTRIAL AND MECHANICAL TECHNOLOGY

	Hours
English 101, 102, 332	9
History, Psychology, Geography, Speech, Political Science, Sociology, Philosophy, Allied Arts	9
PE or ROTC/AFROTC	2
Structure of Materials, PSC 330	3
Plane Trigonometry, MAT 103	3
Microbiology 100	3
Electronics, ESC 411	4

Analytical Mech. I., TEC 361	3
Engineering Drawing I, TEC 121	3
Environmental Controls, TEC 320	3
Physics I, PHY 201	3
Chemistry 100 or 101	3
Pollution Detection, ESC 401	3
	51

EMPHASIS IN INDUSTRIAL TECHNOLOGY

Core—51 hours (in addition to the courses listed below all students in industrial technology will fulfill core requirements listed on page 170)

	Hours
PSC 350, 351, 352	9
Statistics, CSS 211	3
CSS 100, 240, 340	9
Industrial Electronics, IVE 303	3
Pollution Analysis, ESC 402	3
Mechanical Power Trans., TEC 322	3
Eng. Drawing II, TEC 122	3
Manufacturing Processes I, TEC 300	3
Plastics, Ceramics, and Composites, PSC 430	3
Principles of Accounting, ACC 201, 202	6
Elementary Cost Accounting, ACC 320	3
Introduction to Industrial Management, MGT 362	3
Labor Law, MGT 370	3
Industrial Safety, MGT 386	3
Production and Quality Control, MGT 466	3
Work Methods and Performance Standards, MGT 464	3
Electives	14
Recommended Electives:	
Building Construction, TEC 371	3
Woodworking, IVE 331	3
Machine Shop, IVE 342	3
Industrial Instrumentation, TEC 308	3
ECO 100	3

EMPHASIS IN MECHANICAL TECHNOLOGY

Core—51 hours (in addition to the courses listed below all students in mechanical technology will fulfill core requirements listed on page 170)

	Hours
PSC 350, 351, 352	9
Calculus II, III, MAT 277, 378	6
CSS 240	3
Industrial Electronics, IVE 303	3
Tool and Fixture Design, TEC 321	3
Analytical Mech. II TEC 362	3
Mechanical Power Trans, TEC 322	3
Eng. Drawing II, TEC 122	3
Industrial Instrumen., TEC 308	3
Fluid Mechanics, PHY 255	3
Intro to Economics, ECO 100	3
Principles of Accounting, ACC 201, 202	6
Introduction to Industrial Management, MGT 386	3
Industrial Safety, MGT 370	3
Work Methods and Performance Standards, MGT 464	3

Electives	20
Recommended Electives:	
Production Technology, TEC 405	3
Casting Technology, IVE 345	3
Mechanical Equip. and Elec. Systems, TEC 304	3
Elec. Controls and Power Circuits, TEC 306	3
Management 364	3

MEDICAL TECHNOLOGY

(See Department of Medical Technology, page 178)

PLASTICS TECHNOLOGY

(See Department of Polymer Science, page 181)

DEPARTMENT OF BIOLOGY (BIO—305)

Billy J. Grantham, Chairman

Cliburn, Cupp, Dawson,* Fish, Fuller, Gunter,* Howse,* Larsen, B. Martin, Norris, Overstreet,* Pessoney, K. Rogers, Rosso, Scheetz, B. Smith, J. Thompson, Walker

*Gulf Coast Research Laboratory

The Department of Biology prepares students to become professional zoologists or botanists, biology teachers, or fishery, wildlife, or marine biologists. The Department of Biology also offers preprofessional training in medicine, dentistry, pharmacy, veterinary, physical therapy, optometry, and dental hygiene.

Requirements for Major

A student majoring in the Department of Biology may elect one of several plans of study leading to either the Bachelor of Arts or the Bachelor of Science degree. Information concerning the Master of Arts and Master of Science degrees and the Doctor of Philosophy degree is in the **Graduate Bulletin.** A student's choice of a degree program should be determined in consultation with his adviser.

A. **General Core Curriculum Requirements**

A student majoring in the Department of Biology must satisfy the general core requirements of the College of Science and Technology.

B. **Departmental Curriculum Requirements and Recommendations**

1. Required courses

a. BIO 101, 102, 202, 315, 320, 321, and GEN 402, plus sufficient additional courses in biology for a minimum of thirty-two (32) hours.

b. Three (3) additional hours of botany from courses numbered 300 and above.

c. Three (3) additional hours of zoology from courses numbered 300 and above.

d. CHE 101, 102, 103, 351, 352, and 353.

As many as six (6) hours earned in the Department of Microbiology may be credited towards a major in the Department of Biology.

The student majoring in the Department of Biology is encouraged to take as many additional courses as possible in chemistry, geology, mathematics, microbiology, and physics.

2. Recommended courses in special areas of emphasis

a. **Botany**—Departmental curriculum requirements, plus courses elected in botany with approval of adviser.

b. **Zoology**—Departmental curriculum requirements, plus courses elected in zoology with approval of adviser.

The following curricula are recommended by state and federal agencies as preparation for research positions.

c. **Marine Biology**—Departmental curriculum requirements, plus elected courses including BIO 423, 436, 437, 440, 461, 462, and 467; at least one summer at the Gulf Coast Research Laboratory strongly recommended. CHE 311, 312, and PHY 101, 102, 103 recommended.

d. **Wildlife Biology**—Departmental curriculum requirements, plus elected courses in such subjects as BIO 339, 420, 421, and 438; and at least nine (9) hours from BIO 441, 442, 457, 461, or 462.

e. **Fisheries Biology**—Departmental curriculum requirements, plus elected courses including eighteen (18) hours of subjects such as BIO 339, 432, 433, 436, and 437, 438; and six (6) hours of aquatic biology such as BIO 440, 449, 453, 465, 466, and 467.

3. Recommended courses in areas of pre-professional training in medicine, dentistry, pharmacy, and veterinary science are outlined in this **Bulletin** in the beginning section of the College of Science and Technology.

GULF COAST RESEARCH LABORATORY

The University of Southern Mississippi is closely allied with the Gulf Coast Research Laboratory at Ocean Springs. Staff members and biology majors in both the graduate and undergraduate schools have been active participants in the work at the Gulf Coast Research Laboratory. It is strongly recommended that all majors in biology take at least a six-weeks' program in marine biology as offered at the Laboratory. The following courses are to be had only at the Gulf Coast Research Laboratory: BIO 481, 483, 484, 485, 488, 489.

DEPARTMENT OF CHEMISTRY (CHE—320)

John H. Bedenbaugh, Chairman

A. Bedenbaugh, Blomquist, C. Brent, Hampton, Hawkridge, J. Howell, Krubsack, D. C. McCain, Pinson, Toom, van Aller, Wertz, H. Williams

A student planning to major in chemistry may elect either the Bachelor of Science or the Bachelor of Arts degree. For information concerning the master's degree and the Doctor of Philosophy degree, see the **Graduate Bulletin.** A major in chemistry will include not less than thirty-six (36) semester hours of chemistry.

The Department of Chemistry is accredited by the Division of Chemical Education of the American Chemical Society. A chemistry major may graduate as a chemist certified by the American Chemical Society. In order to obtain this certified degree the following curriculum is prescribed.

ACS CERTIFIED DEGREE

	Suggested Prerequisites or Corequisites
Chemistry 101, 102, 103	English 101, 102, 332
Chemistry 351, 352, 353	Mathematics 101, 103, 171
Chemistry 311, 312, 411	Mathematics 276, 277, 378
Chemistry 461, 462, 463	Mathematics 379, 405
Chemistry 431	Physics 201, 202, 203 or 101, 102, 103
Chemistry electives—9 hours to be chosen from 300, 451, 452, 421, 422, 432, 441, 496	History 101, 102
	Political Science 101
	Philosophy 253
	Allied Arts 100
	Public Address 111

Electives—27 hours
Recommended electives GEN 402
CSS 240, CSS 340, GLY 101, PHY 361, FL 121, 122, 221, 222

CHEMISTRY MAJOR (NON-ACS CERTIFIED)

A major in chemistry will include not less than thirty-six semester hours of chemistry and must consist of:

Chemistry 101, 102, 103
Chemistry 351, 352, 353
Chemistry 311, 312
Chemistry 461, 462, 463

Recommended companion courses are:

Mathematics 101, 103, 171
Mathematics 276, 277, 378, 379 (calculus)
Physics 201, 202, 203 or 101, 102, 103

SECONDARY EDUCATION

A major in chemistry for secondary education will include not less than twenty-seven (27) hours and must consist of:

Chemistry 101, 102, 103
Chemistry 351, 352, 353
Chemistry 311, 312

DEPARTMENT OF COMPUTER SCIENCE AND STATISTICS (CSS—330)

Danny R. Carter, Acting Chairman

Bisland, Burge, Henderson, Nagurney, Nissan, Phillippi, Stewart, Walters

The Computer Science and Statistics Department is designed to meet the great demand for trained personnel in electronic computers, and statistics in business, space and missile programs, engineering, government, and the academic world. The department provides training in digital as well as analog computer techniques. Current course offerings provide for an academic major in computer science, data processing, computer technology, or statisics at the undergraduate level and a minor in statistics at the graduate level.

The department has initiated a cooperative education program with industry for selective students. The students selected for this program attend school and work on alternate quarters.

REQUIREMENTS FOR MAJOR COMPUTER SCIENCE

The courses required for a baccalaureate major in computer science are listed below by sets.

(A) CSS 240, 320, 340, 341, 342, 460, 461
(B) CSS 323, 420, 421, 470, 471, 476
(C) CSS 415, 416, 417, 435, 436

Requirements for Majors:

(2) All courses from Set (A)	21
(3) Three courses from Set (B)	9
(4) Two courses from Set (C)	6
Total	36

A minor of twenty-one (21) hours is also required. Suggested minors include the following: accounting, mathematics, physics, or statistics.

STATISTICS

CSS 435, 436—Theoretical Statistics
CSS 415, 416, 417—Methods of Mathematical Statistics

The remainder of the twenty-seven (27) hours is to be selected with the approval of the department chairman. Psychology 360 may be taken in the Department of Psychology and applied to a major or minor.

A minor of twenty-one (21) hours is also required. Suggested minors include the following: computer science or mathematics.

DATA PROCESSING

(This is an interdisciplinary major offered in conjunction with the Department of Accounting, School of Business Administration.)

	Hours
*Freshman and Sophomore Curriculum	72
CSS 211, 212—Elementary Statistics I and II	6
FIN 295—Fundamentals of Business Law	3
FIN 400—Computers in Decision Making	3
MGT 360—Principles of Management	3
Accounting courses as listed below:	15
ACC 301—Intermediate Accounting I	3
ACC 302—Intermediate Accounting II	3
ACC 320—Elementary Cost Accounting	3
ACC 330—Federal Income Tax I	3
ACC 401 or 409	3

*The student must take at least eight hours of laboratory science.

	Hours
Computer Science courses as listed below:	22
CSS 320—Introduction to Linear Programming Techniques.	3
CSS 340—Advanced Fortran Programming	3
CSS 341—Digital Computer Programming	3
CSS 342—Introduction to COBOL Programming	3
CSS 440—Educational Statistics	3
CSS 460—Computer Software I	3
CSS 480—Data Processing and File Management	4

COMPUTER TECHNOLOGY (229)

	Hours
College of Science and Technology Core	53
Major Core	
CSS 240, 340, 341, 342, 370, 371, 372, 440	27

Specialty

Software	Hours	Scientific	Hours
CSS 460, 461	6	CSS 320	3
CSS 450, 451	8	CSS 420, 421	6
CSS 480	4	CSS 415-416 or 435-436	6
CSS 470	3	CSS 460	3
		CSS 470	3
Total	21	Total	21

A minor of twenty-one (21) hours is also required. Physics would be a suggested minor.

DEPARTMENT OF GEOLOGY (GLY—340)

Oscar Paulson, Acting Chairman

Bowen, B. W. Brown, Sundeen

Students may major in geology as preparation for careers in development of natural resources, regional and national planning, research, secondary education, college and university teaching, oceanography, exploration of the Earth and Space, and other allied occupations. Either a Bachelor of Science or Bachelor of Arts program may be taken, and graduate work through the master's degree is offered in the department.

High School Preparation. Secondary students planning to prepare for professional careers in the geological sciences should complete credits in biology, chemistry, and physics (if available), mathematics through second-year algebra, solid geometry, and trigonometry (or equivalent). Other desirable credits include foreign language, engineering drawing, or similar courses in drafting and typing.

Bachelor of Science Program. For the Bachelor of Science in Geology, the following courses, in addition to the requirements of the University Core and the College of Science and Technology are required:

Mathematics through Analytic Geometry
Chemistry 101-102-103
Physics 101-102-103 (or 201-202-203)
Geology 101, 102, 103, 104, 301, 304, 308, 310, 341 and twelve hours from other course offerings, six of which may be summer geology field course. The requirement for field geology may be met by taking summer geology courses offered at marine stations, such as the Gulf Coast Research Laboratory in Ocean Springs, Mississippi.

Minor. A minor of eighteen (18) hours is also required. Suggested minors include the following: biology, chemistry, computer science, geography, mathematics, or physics.

SUGGESTED GEOLOGY 4-YEAR CURRICULUM

A curriculum which prepares the students for professional employment or advanced study in geology is suggested below (students wishing to prepare for careers in paleontology, geochemistry, geophysics, or oceanography should consult with their departmental adviser regarding desirable modifications from this curriculum).

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	ENG 332
CHE 101	CHE 102	CHE 103
GLY 101	GLY 102	GLY 104
MAT 171	GLY 103	MAT 277
PE or ROTC/AFROTC	MAT 276	PE or ROTC/AFROTC

Sophomore

PHY 201 (or 101)	PHY 202 (or 102)	PHY 203 (or 103)
GHY 103	HIS 101	HIS 102
ECO 100 or 256	PA 111 or Elective	Allied Arts 100 or PHI 253
CSS 240	CSS 341	GLY 310
PE or ROTC/AFROTC		

Junior

GLY 301	GLY 304	GLY 405
GLY 308	GLY 302	GLY Elective
CHE 311	CHE 312	PS 101
GLY Elective	GLY 341	CHE 361 or 411
	Summer Field Camp (6)	

Senior

GLY 401	GLY 403	GLY 407
GLY 474	GLY 474	Elective
GER, FRE, or RUS I	GER, FRE, or RUS II	GER, FRE, or RUS III
ECO 335, FIN 295, or 375, or MGT 360	Minor Elective	Minor Elective
Elective	Elective	

The department has a cooperative arrangement with the Gulf Coast Research Laboratory. Certain courses in marine sedimentation may be taken at the Laboratory; these are generally taught in the summer.

GEOLOGY MINOR AND PREPARATION FOR SECONDARY EDUCATION, EARTH SCIENCE TEACHING

The following courses are suggested for students seeking a geology minor or preparation for earth science teaching in secondary schools: GLY 101, 102, 103, 104, 201, 241, 301, and 304.

DEPARTMENT OF MATHEMATICS (MAT—350)

David J. Caveny, Chairman

B. J. Davis, Doblin, Dunigan, Essary, Howell, Jeter, King, Knighton, Light, Morrell, V. Mullins, Munn, Oxford, Pye, Ratcliff, Thrash, Webster

The Department of Mathematics offers a major and minor for students who are candidates for the Bachelor of Arts or the Bachelor of Science, the Master of Arts or the Master of Science degrees, the Master of Philosophy, and, in cooperation with the College of Education and Psychology, the Master of Education and the Doctor of Education degrees. For information concerning degrees beyond the bachelor's degree consult the **Graduate Bulletin.**

It is assumed that mathematics or science majors will have had Algebra I, Algebra II, geometry, and trigonometry in high school. These students should begin their mathematics program with MAT 171 and/or MAT 276. The same applies to any student with a strong background in secondary school mathematics. Students without this background in mathematics should elect MAT 103 and/or MAT 101. Mathematics majors should take MAT 341 and 326 concurrently with some of the calculus courses. A student majoring in mathematics may not apply credit earned in MAT 100, MAT 112, MAT 210, MAT 310, or MAT 312 toward the 128 hours required for a baccalaureate degree.

The courses required for a baccalaureate major are listed below by sets in order to facilitate the proper selection of course sequences.

(A) Mathematics 276, 277, 378, 379, 326, 341.
(B) Mathematics 405, 423, 426, 436, 441, 470, 475.

Requirements for Majors:	**Hours**
(1) All courses in Set A	18
(2) Four courses from Set B	12
(3) Any 400 level course other than MAT 410 or MAT 430	3
Total	33

Recommendations for Minors:	**Hours**
(1) All courses in Set A	18
(2) One or more courses from Set B	3
Total	21

The curriculum of the Department of Mathematics is designed to meet the following objectives:

(i) prepare students for industrial or commercial employment,
(ii) prepare students to teach secondary school mathematics,
(iii) prepare students for graduate study in mathematics.

The following courses are strongly recommended for:

(1) Prospective elementary school teachers: MAT 210, 310, 341, 410. If other courses are desired; 101, 103.
(2) Prospective teachers of secondary school mathematics: The state certification requirements in mathematics for a Class A certificate are:

twenty-four (24) semester or thirty-six (36) quarter hours to include the following:

(i) Fifteen (15) semester or twenty-four (24) quarter hours to include Algebra 101, Trigonometry 103, Analytic Geometry 171, Calculus 276 and 277.

(ii) Nine (9) semester or twelve (12) quarter hours to include at least two of the following areas: Abstract Algebra 423 or 424, Modern Geometry 470, Foundations of Mathematics 341, Probability and Statistics 420.

If other mathematics courses are desired, the student should take courses that will prepare him to do graduate work in mathematics.

A student may choose as many areas of certification as he desires just so he meets the certification requirements for the area. For mathematics these requirements are (i) and (ii) immediately above.

DEPARTMENT OF MEDICAL TECHNOLOGY (MTC—354)

William G. Brundage, Chairman

Thomas F. Puckett, Clinical Director
Robert T. Crews, Education Coordinator

Atchison, Barrett, Cooke, Dore, Grotheer, Harwell, Hudson, Lopeze, D. M. Owen, L. Smith, Stith, Turner

The Department of Medical Technology is accredited by the Council on Medical Education of the American Medical Association. Upon successful completion of the program, students receive the Bachelor of Science degree in Medical Technology and become eligible to take the National Registry Examination given by the Board of Registry, American Society of Clinical Pathologists. For information on the Master of Science degree, please consult the **Graduate Bulletin.**

Requirements for Major

A student majoring in the Department of Medical Technology must complete courses outlined for the freshman, sophomore, and junior years. During the junior year, the student will apply to the department and the Board of Schools of the American Society of Clinical Pathologists for admission into the senior year. The fourth year of training consists of two phases: Phase I, a six-month didactic session on the University of Southern Mississippi campus; and Phase II, a six-month clinical session at one of our affiliated hospitals. Affiliated hospitals are: Memorial Hospital, Gulfport, Mississippi; Forrest County General Hospital, Hattiesburg, Mississippi; and Singing River Hospital, Pascagoula, Mississippi.

Two senior classes are accepted each year, one in June and one in December.

CURRICULUM

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	Social Science
CHE 101	CHE 102	CHE 103
BIO 101	BIO 102	BIO 202
MAT 101	MAT 103	MAT 171 or CSS 100
PE or ROTC/AFROTC	PE or ROTC/AFROTC	MTC 101

Sophomore

CHE 251	CHE 252	CHE 321
MIC 101	Elective	Social Science
GEN 451	Social Science	PHI or AA
ENG 332	HIS	HIS

Junior

MIC 411	MIC 412	MIC 441
BIO 424	BIO 425	ESC 411
CHE 311	CHE 312	CHE 441
CHE 322	Elective	MIC 405
		MTC 400

Senior

Didactic Session	Clinical Session
MTC 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412	MTC 451, 452, 455, 456, 457, 458, 459

DEPARTMENT OF MICROBIOLOGY (MIC—310)

Peter K. Stocks, Chairman

Ellender, Howard, Seymore, Stoddard, Yarbrough

The Department of Microbiology offers programs of study leading to the degrees of the Bachelor of Science, the Master of Science, and the Doctor of Philosophy. For information on the master's and the Doctor of Philosophy programs please consult the **Graduate Bulletin.**

The Department of Microbiology is designed to prepare students for careers in medical and industrial (applied) microbiology and genetics. Current course offerings provide for an undergraduate major or minor in microbiology or a minor in genetics.

Requirements for Major

A student majoring in the Department of Microbiology must complete a minimum of thirty-two (32) semester hours including the following specific courses:

	Hours
Microbiology 101, 301, 408, 455	12
Genetics 402, 403, 461	10
Biology 448, 449	6
Chemistry 101, 102, 103, 351, 352, 353	19
Physics 101, 102, 103	9
Mathematics 171, 276, 277	9

SUGGESTED FOUR-YEAR CURRICULUM FOR MICROBIOLOGY MAJORS

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	ENG 332
MIC 101	MIC 301	MIC 408
CHE 101	CHE 102	CHE 103
MAT 171	MAT 276	MAT 277
PE or ROTC/AFROTC	PE or ROTC/AFROTC	PE or ROTC/AFROTC

Sophomore

CHE 351	CHE 352	CHE 353
PHY 101	PHY 102	PHY 103
MIC 411	MIC 412	MIC 441
GEN 402	GEN 403	GEN 461

Junior

CHE 311	CHE 312	AA 100
HIS 101	HIS 102	PSY 110
MIC 405	MIC 421	MIC 455
CSS 211	CSS 212	CSS 240

Senior

PHI 253	ECO 200	MIC 481
MIC 471	BIO 448	BIO 449
CHE 421	CHE 422	Elective
BIO 424	BIO 425	ESC 411

INSTITUTE OF GENETICS (GEN-312)

Karen M. Yarbrough, Director

Howard, Stoddard

The Institute of Genetics participates in programs leading to the Master of Science and the Doctor of Philosophy degrees through the Department of Microbiology. Information on these programs may be obtained from the **Graduate Bulletin.** The Institute of Genetics also offers a minor in genetics at the bachelor's level.

A minimum of twenty-one (21) semester hours is required which should include GEN 402, 403, and 451. The remainder of the program is to be selected with the approval of the Director of the Institute of Genetics.

DEPARTMENT OF PHYSICS (PHY—360) AND ASTRONOMY (AST—365)

William E. Hughes, Chairman

Folse, Herzog, Rayborn, St. Clair, J. Wood

The primary objectives of the Department of Physics are to provide students with sufficient basic information and technical skills in the various areas of physics so that they may be qualified to:

(a) Serve as teachers in secondary schools. A physics major for this group will include PHY 101, 102, 103 or PHY 201, 202, 203; PHY 341, 361, 362, plus 9 hours of any other physics courses above the 200-level (total 27 hours). Mathematics through Calculus is required.

(b) Serve as physicists in government or industry. Physics majors for this group will include PHY 101, 102, 103 or PHY 201, 202, 203; PHY 341, 350, 351, 361, 362, 421, 422, 423, 424, plus 6 hours of other physics courses above the 200-level (total 38 hours). The prerequisite mathematics for the physics courses may constitute the minor, or the student may elect to complete any additional allied science for the minor. Chemistry 101, 102, and 103 and mathematics through Differential Equations are required.

(c) Pursue professional work and graduate study in physics. It is the intent of the Physics Department to meet the recommendations of the **American Institute of Physics—National Science Foundation Committee on Curriculum for Undergraduate Physics Majors.** Any student planning to do graduate work in physics should consult the department about additional undergraduate credits in physics and mathematics. Chemistry 101, 102, and 103 are required.

NOTE: Astronomy 311, 312, 313 do not fulfill the physics courses which may be elected in (b) and (c) above.

Leaflets giving outlines of undergraduate programs that will meet all departmental and University requirements are available from the departmental office. Students planning to major in physics should obtain these leaflets as soon as possible.

It is assumed that the high school mathematical preparation of entering freshman students includes Algebra I, Algebra II, geometry, and trigonometry.

DEPARTMENT OF POLYMER SCIENCE (PSC—370)

Gary C. Wildman, Chairman

Bufkin, Frayer, D. R. Owens, Thames

The Department of Polymer Science offers programs of study leading to the degrees of the Bachelor of Science in Polymer Science, the Bachelor of Science in Plastics Technology, the Master of Science in Polymer Science, and the Doctor of Philosophy in Polymer Science. For information concerning the master's and Doctor of Philosophy degree, see the **Graduate Bulletin.**

BACHELOR OF SCIENCE IN POLYMER SCIENCE

The objective of this curriculum is to prepare the graduate to enter the industrial community or to continue his studies at the graduate level. The Bachelor of Science in Polymer Science constitutes an interdisciplinary program of study and, therefore, no minor is required.

THE BACHELOR OF SCIENCE IN POLYMER SCIENCE

Requirements	Hours
Polymer Science	25
Physics	9
Computer Science	9
Chemistry	18
Environmental Science (ESC 411)	4
Mathematics	18
Basic Core of the College of Science and Technology	
Electives	

A student entering this program should consult with his adviser concerning the identity and chronological order of the courses to be taken. The following is a suggested list of the scientific courses that should be taken:

PSC 301, 302, 303, 401, 402, 403, 470, 471
PHY 201, 202, 203
CSS 240, 340, plus one CSS elective
CHE 101, 102, 103, 351, 352, 353
ESC 411
MAT 171, 276, 277, 378, 379, 405

Each student is encouraged to complete an independent research project (PSC 490, 491) during his last two quarters. Additional electives from the College of Science and Technology and the School of Business Administration are selected according to each student's career plans.

BACHELOR OF SCIENCE IN PLASTICS TECHNOLOGY

The curriculum for the Bachelor of Science in Plastics Technology is designed to prepare the student to enter the rapidly expanding plastics industry. A plastics technology major will complete a minimum of forty-two (42) semester hours in the major field. No minor is required. Each student will be assigned an adviser to plan the proper course sequence within the student's interest. The following course outline is a suggested program of study:

Freshman

Core requirements plus Chemistry 101, 102, 103; (Drafting, if none in high school)

Sophomore

Complete core including physics

Junior and Senior	Hours
Polymeric Materials I, II, III (PSC 350, 351, 352)	9
Analytical Mechanics I & II (TEC 361, 362)	6
Plastics Technology I, II & III (PSC 360, 361, 362)	9
Machine Shop (IVE 342)	3
Physical Properties of Polymers I (PSC 460)	3
Plastic Mold Design (TEC 363)	3
Plastic Mold Construction (TEC 364)	3
Electrical Controls and Power Circuits (TEC 306)	3
Plastics Technology IV (TEC 365)	3
Physical Properties of Polymers II (PSC 461)	3
Industrial Instrumentation (TEC 308)	3
Plastics Industry Organization (TEC 367)	3
Plastics Seminar (PSC 493)	2
Electives and other as required	

Electives from the College of Science and Technology and School of Business Administration are selected according to each student's career plans.

DEPARTMENT OF SCIENCE EDUCATION—(SCE—380)

Including Fundamentals of Science (FS—390)

Bobby N. Irby, Chairman

Bellipanni, F. Brown, I. Brown, Craven, Dale, Flowers, Hurst, Matthews, Milkent, Sonnier

The Department of Science Education is operated jointly by the College of Science and Technology and the College of Education and Psychology. The facilities are in the College of Science and Technology. Programs in teacher-education are in the College of Education and Psychology. Responsibility for the curriculum is shared jointly. Graduate programs are described in the **Graduate Bulletin.**

Objectives

The objectives of the Department of Science Education are: (1) to provide those courses in both the physical and biological sciences which would give a minimum degree of scientific literacy to all students; (2) to provide, in cooperation with the Department of Curriculum and Instruction, a curriculum in the sciences and science methods for elementary school teachers; (3) to provide programs for those students planning to teach the sciences at the secondary school level; (4) to provide programs leading to advanced degrees in science education; and, (5) to work with public schools in the development of curricula, workshops, science fairs, and other activities designed to improve science instruction at all public school levels.

Curriculum and Programs

The Department of Science Education is primarily concerned with teachers and prospective teachers of science. Although some students will be planning to teach a specific science discipline, current public school organization encourages diversification of training in the sciences for prospective science teachers. Therefore, familiarity with principles and concepts common to all the scientific disciplines should be a prerequisite for teacher training programs in science education. Hence, programs in science education are so organized as to give teachers and prospective teachers a broad understanding of several sciences, with the opportunity for enough specialization in one area to pursue advanced study.

All prospective science teachers at the junior and senior high school

levels are expected to complete introductory courses in the four basic science areas—biology, chemistry, geology, and physics. One year of college mathematics is also required. With few exceptions, the first mathematics course would deal with analytical geometry.

Specialization in a particular science, depending upon the area, requires from twenty-three (23) to twenty-nine (29) semester hours credit in that area. Upon completion of the undergraduate program, the student would be certified to teach one or more specific sciences and general science. A general outline of the program is given below:

Freshman

	Hours
English 101, 102, 332	9
Mathematics 101, 103, 171	9
Chemistry 101, 102, 103	9
American Government, PS 101	3
Allied Arts 100	3
Health 101	3

Sophomore

Biology 101, 102, 202	12
Literature or Advanced Grammar, ENG 200, 201, 202, or 401	3
History 101, 102	6
Geography 223 or 224	3
Physics 101, 102, 103	9

Junior

Psychology 110	3
Sociology 101	3
Public Address 111	3
Geology 101, 103	6

Begin prescribed (27 hours) professional education sequence

Additional sciences (Note: biology specialists must complete organic chemistry.)

Senior

Complete education sequence (total)	27
CIS 456 (quarter preceding student teaching)	3
CIS 313, 486	12
Science Education 400-level course in specific science area	3

Complete required science courses and credits needed for graduation.

Biology courses for specialization—101, 102, 202, 401, two electives, MIC 101 and GEN 402.

Chemistry courses for specialization—101, 102, 103, 311, 312, 351, 352, 353.

Earth Science courses (being interdisciplinary, courses are utilized from three departments) GLY 101, 103, 301, 241 or 304; AST 311, 312, 313; GHY 223, 224, 325, and one elective.

Physics courses for specialization—101, 102, 103, 361, 362, three physics electives and MAT 276.

The scope of the science education program and the fact that many courses run in sequence and are offered at particular times of the year necessitate careful and frequent advisement of students. It cannot be over-emphasized that students should consult with their assigned adviser each quarter. Failure to do so will most often result in unnecessary delays and hardships in completing the program.

The above program provides a broad background and some depth in all science areas, gives the prospective teacher an opportunity for considerable depth and specialization in one science area, and requires the

necessary background courses in professional education for effective teaching.

Students in the College of Science and Technology and in the College of Education and Psychology can major in science education and minor in secondary education. The program as outlined above for science teachers meets the certification requirements in all states in the areas of biology, chemistry, physics, earth science, general science, and physical science.

FUNDAMENTALS OF SCIENCE (FS—390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit for each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by various other science departments, the student should read carefully the limitations for each of the Fundamentals of Science courses. Any questions should be answered by the student's adviser and/or the Department of Science Education prior to enrolling in these courses since they may be taken in any sequence the student chooses.

DIVISION OF EXTENSION AND PUBLIC SERVICE

Gomer J. Pound, Dean

The Division of Extension and Public Service enables the University to extend its resources of knowledge, skills, and artistry to all who seek to profit from them. This is accomplished through the operation of two degree-granting campuses, and the activities of Departments of Independent Study, Conferences and Workshops, and Community Services and Programs. In addition, courses are scheduled throughout the state which are designed to provide for the needs of individual populations.

Academic policies governing the University's degree-granting campuses at Long Beach and Natchez are virtually the same as those for the parent campus. Certain minor deviations are noted here.

Semester Calendar

Unlike the Hattiesburg campus, USM-Gulf Park and USM-Natchez are on a regular semester calendar. Two semesters and one summer session comprise the yearly schedule.

Admission

In keeping with the status of USM-Gulf Park and USM-Natchez as upper level institutions, admission is open exclusively to students who have attained junior standing (54 semester hours of acceptable credit). In other respects, admission requirements are identical with those outlined earlier in this **Bulletin.** Transcripts and completed applications should be sent to the Director of Admissions and Records, USM-Gulf Park, Long Beach, MS 39560, or to the Director of Admissions and Records, USM-Natchez, Natchez, MS 39120.

Degree Programs

USM-Gulf Park offers programs leading to the Bachelor of Science with a major in business administration, the Bachelor of Science professional degree in elementary education, the Bachelor of Science in post-secondary industrial technical education, and the Bachelor of Science professional degree in secondary education with emphasis in social studies, English, or mathematics.

USM-Natchez offers the same degrees, with the exception of the Bachelor of Science in post-secondary industrial technical education. An Associate Degree program in Nursing is offered at USM-Natchez. A description of this program follows later.

With the exception of residence hour requirements, degree programs at USM-Gulf Park and USM-Natchez follow regulations and curricular outlines found in the appropriate sections of this **Bulletin.**

Residency Requirements

The following regulations serve in lieu of residence hour requirements for USM-Gulf Park and USM-Natchez degres:

1. At least thirty-two (32) semester hours of credit must be earned at one, or a combination of, the University's three degree-granting campuses.
2. At least nine (9) of these thirty-two hours must be earned in the student's major field.
3. At least sixteen (16) of these thirty-two hours (exclusive of student teaching) must be taken at the campus from which the degree is awarded—i.e., USM-Gulf Park or USM-Natchez—or a combination of these two campuses.

Supporting Programs

In addition to offering degree programs in the areas mentioned above, both USM-Gulf Park and USM-Natchez regularly schedule

courses in support of many degrees offered only through the Hattiesburg campus, thereby enabling a student to earn a portion of his degree requirements locally.

Advisement

For the student's own protection, it is imperative that he accomplish all his program planning in consultation with his official adviser. Students pursuing degrees at USM-Gulf Park or USM-Natchez should consult their respective USM-Gulf Park or USM-Natchez advisers. Students involved in programs leading to degrees available only through the Hattiesburg campus must consult the appropriate department chairman on the parent campus in Hattiesburg.

UNIVERSITY OF SOUTHERN MISSISSIPPI—GULF PARK

Joe E. Holloway, Dean

Bullard, Burch, Inman, B. E. Lee, Manly, McLeod, Mendenhall, Ozerden, Sherry, B. E. Smith, C. Thompson, Wallace, Wilder

The University of Southern Mississippi—Gulf Park, with campuses both in Long Beach and at Keesler Air Force Base, is part of a cooperative coordinated plan to offer higher education on the Mississippi Gulf Coast. While the Mississippi Gulf Coast Junior College District administers local programs at the freshman-sophomore level and Mississippi senior colleges meet the needs of full-time students, USM-Gulf Park offers junior, senior, and graduate level courses exclusively to part-time commuting students. For further details write:

USM—Gulf Park
Long Beach, MS 39560

USM-Jackson County Resident Center

Gulf Coast area students are also served by a separate unit, the University of Southern Mississippi Jackson County Resident Center. Course offerings and scheduling are coordinated with USM-Gulf Park and students are permitted to enroll concurrently at both locations. Although there is no limit to the amount of credit that can be earned at the Jackson County Resident Center, its course work cannot apply toward meeting residency requirements at either USM-Gulf Park or USM-Hattiesburg.

UNIVERSITY OF SOUTHERN MISSISSIPPI—NATCHEZ

Billy W. Gore, Dean

L. Bowers, Burnham, Ellis, Lindecamp, Presley, W. Taylor, Walton

The University of Southern Mississippi—Natchez is located in beautiful and spacious Duncan Park. Upper division and graduate courses are offered to part-time commuting students in the region. Through cooperative arrangements with Copiah-Lincoln Junior College, which operates a branch in Natchez, and Alcorn A & M College, which participates with the University, students can take all four years of a baccalaureate degree, then progress to master's work in Natchez. For further details of any program at Natchez, please write:

USM—Natchez
Natchez, MS 39120

ASSOCIATE DEGREE NURSING PROGRAM

Flora Posey, Director

Ballard, Golonka, E. Hall, Pierce, Priest

The University of Southern Mississippi—Natchez awards an Associate of Science in Nursing degree. Graduates are eligible to write the Mississippi State Board Test Pool Examination for licensure as registered nurses.

The Associate Degree Nursing Program was organized in 1964 in response to a request from community leaders that the University provide a program which would prepare registered nurses for Natchez and the surrounding area. The first Associate of Science in Nursing degrees were awarded in 1966.

Applicants must first be accepted for admission to the University. In addition, satisfactory achievement on the nursing aptitude test, evidence of good health, specified immunizations, and acceptable personal and character references are required. Each student must show evidence of the development of qualities considered by the faculty in nursing to be essential for the safe practice of nursing. A student failing to show evidence of development of these qualities will be requested to withdraw from the program.

Purpose

The purpose of the nursing program is to provide for the community beginning practitioners of nursing who possess the scientific knowledge, understanding, and fundamental skills to administer direct nursing care to patients having common, recurring problems and to supervise other personnel in the technical aspect of nursing care under professional supervision.

Accreditation

The nursing program is fully approved by the Board of Trustees of State Institutions of Higher Learning and holds membership in the Department of Associate Degree Programs of the National League for Nursing.

Student Advisement

The faculty in nursing is responsible for the academic advisement of students. Courses should be pursued in listed sequence unless otherwise approved by the Director, Department of Nursing.

Financial Aid

Applications for student loans and scholarships may be secured from the office of the Department of Nursing and, upon completion, forwarded to the Director of Student Aid and Scholarships on the Hattiesburg campus. Local student aid is processed through the nursing office.

Expenses

Tuition is the same for students of nursing as for other USM-Natchez students. Information concerning additional expenses peculiar to the nursing program may be obtained from the Department of Nursing.

Curriculum

Nursing students take supporting courses through Copiah-Lincoln Junior College. Because Copiah-Lincoln's branch in Natchez is on a quarter calendar, and because of contractual agreements with hospitals in the area, the Associate Degree Program in Nursing is built on a quarter calendar.

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biology 220	3	Biology 221	3	English 100 or 101	3
*Nursing 101	6	Food & Nutrition 360	2	Nursing 103	4
Science	3	Nursing 102	4	Psychology 375	3
		Psychology 101	3	Science	3
	12		12		13

Summer Quarter

	Hours
Nursing 104	5

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Nursing 201	7	English 101 or 102	3	Nursing 203	10
Sociology 101	3	History 101	3	P.A. 111	3
		Nursing 202	7		
	10		13		13

*Individuals meeting requirements may challenge for credit.

NURSING (NUR—095)

(Natchez Campus)

Students must achieve a grade of C or better on theory and clinical laboratory in each course in nursing.

101. **Nursing Science I.** 6-4.5-13.5-F. Orientation to nursing. Concepts of physical and mental health, communications, and rehabilitation in relation to the health needs of the individual and the community.

102. **Nursing Science II.** 4-3-9-W. Knowledge, understanding, and skills needed to facilitate the founding or expanding family's adaptation to stress in the maternity cycle.

103. **Nursing Science III.** 4-3-9-S. Concepts of illness and the body's reaction and coping mechanisms. Nursing assessment and intervention to maintain metabolic homeostasis.

104. **Nursing Science IV.** 5-7-13.5-Su. Factors affecting the body's need for oxygen. Assessment, conservation, and promotion of external and internal respiration in cinical experiences.

201. **Nursing Science V.** 7-6-13.5-F. Factors interfering with safety and security related to musculo-skeletal and nervous disfunctions. Nursing intervention to promote adjustment.

202. **Nursing Science VI.** 7-6-13.5-W. A continuation of NUR 201, emphasizing nursing intervention in patient problems involving sensory and regulatory interferences.

203. **Nursing Science VII.** 10-9-18-S. Principles of emergency and disaster nursing. Team nursing concepts applied to care of groups of patients. Seminar in trends in nursing.

DEPARTMENT OF INDEPENDENT STUDY

Dale E. Clark, Director

The Department of Independent Study offers approximately one hundred courses which may be taken for University credit. These courses count for regular credit in the University and for approved credit on State Certificates for Teaching. As many as thirty-three (33) semester hours (no more than nine (9) in any one academic area) of the total 128 hour baccalaureate degree requirements may be earned in independent study courses, subject to the provisions outlined in detail in the Department of Independent Study 1973-1974 **Bulletin.**

Independent study courses are particularly suited to the needs of the student who wishes to move at his own rate, and for the student who is unable to attend a university. These courses allow the student to earn credit through the advantages of home study.

The Department of Independent Study has a contract with the United States Armed Forces Institute of Madison, Wisconsin. Under the terms of this contract, the United States Government will pay the tuition charge of independent study courses for members of the Armed Forces throughout the world. Additional information concerning independent study courses for military personnel may be obtained from the 1973-1974 **Bul-**

letin of the Department of Independent Study or from the 1973 edition of the United States Armed Forces Institute's publication entitled, "Correspondence Courses Offered by Colleges and Universities through the United States Armed Forces Institute."

A complete high school curriculum is available through independent study, and courses are acceptable as entrance credits by the University. A High School Independent Study Catalog is available on request.

For further information, contact:

Director, Department of Independent Study
University of Southern Mississippi
Southern Station, Box 56
Hattiesburg, Mississippi 39401

DEPARTMENT OF CONFERENCES AND WORKSHOPS

Joseph E. Tinnon, Director

The Department of Conferences and Workshops has the responsibility of coordinating the administrative and logistical details for all credit and non-credit conferences, institutes, and workshops sponsored by the University. This department stands ready at all times to assist University departments, and educational, professional, business, and industrial groups in setting up conferences, institutes, or workshops.

Either academic credit or continuing education unit (c.e.u.) credit may be awarded for conference, institute, or workshop attendance, provided the activity is offered through an existing course number or is given prior approval by the appropriate University council. The number of contact hours necessary for a three semester hour workshop is equivalent to the number of contact hours necessary for satisfactory completion of a regular on-campus course. Activities awarding graduate credit are required to conform to special credit policies established by the Graduate Council.

Conveniently located and comfortable building facilities are available on or near the three University campuses for groups of any size. Meals and housing in air-conditioned facilities, all at nominal rates, are also available to individuals participating in both credit and non-credit programs at the Hattiesburg and Gulf Park campuses. Additional conveniences include the location of motels, restaurants, shopping centers and recreational facilities within walking distance.

DEPARTMENT OF COMMUNITY SERVICES AND PROGRAMS

B. Glynn Rawson, Director

The Department of Community Services is set up to aid individuals, both university and non-university, in tapping the resources of the University in non-credit programs. Non-credit special interest classes are organized on the University's campuses. The department also assists groups and organizations who request the use of University facilities for meetings or other special non-credit activities. Other services provided by this department include assisting outside organizations such as high schools, junior and senior colleges, civic organizations, etc., in obtaining University talent. This talent may take the form of speakers, dramatic and musical groups, and many of the other resources representative of the University.

Recently instituted into the department's offerings is a Listener's License program, whereby individuals may "sit-in" on regular University courses on a non-credit basis without actively participating in the class and without being required to complete class requirements.

COURSE DESCRIPTIONS

INDEX OF ABBREVIATIONS FOR FIELDS OF INSTRUCTION

AA	Allied Arts
AAC	Athletic Administration and Coaching
ACC	Accounting
AED	Educational Administration and Supervision
AMS	American Studies
ANT	Anthropology
AOS	Aerospace Studies
APM	Applied Music
ARE	Art Education
ART	Art
AST	Astronomy
BED	Business Education
BIO	Biology
CD	Child Development
CGE	Counseling and Guidance
CHE	Chemistry
CIA	Adult Education
CIE	Elementary Education
CIF	Educational Foundations
CIS	Secondary Education
CJ	Criminal Justice Studies
CLT	Comparative Literature
COM	Communication
CSS	Computer Science and Statistics
CT	Clothing and Textiles
ECO	Economics
ENG	English
EPY	Educational Psychology
ESC	Environmental Technology
EVD	Environmental Design
FIN	Finance
FL	Foreign Languages
FN	Food and Nutrition
FS	Fundamentals of Science
FST	Food Science and Technology
GEN	Genetics
GHY	Geography
GLY	Geology
HEE	Home Economics Education
HHM	Housing and Home Management
HIS	History
HTH	Health; see also Athletic Administration and Coaching
IAD	Institution Administration
IVE	Industrial and Vocational Education
JOU	Journalism
LS	Library Science
MAT	Mathematics
MED	Music Education
MFL	Marriage and Family Life
MGT	Management
MIC	Microbiology
MKT	Marketing
MS	Military Science
MTC	Medical Technology
MUS	Music
NSG	Nursing
OHC	Honors Center
PA	Public Address
PE	Physical Education; see also Athletic Administration and Coaching
PHI	Philosophy
PHY	Physics
PS	Political Science
PSC	Polymer Science
PSY	Psychology
REC	Recreation
RED	Educational Research Training
REL	Religion
RTF	Radio-Television-Film
SCE	Science Education
SCI	Science
SHS	Speech and Hearing Science
SOC	Sociology
SPE	Special Education
TEC	Technology
THE	Theatre Arts
THY	Therapy

EXPLANATION

The numerical listing after the course title gives the following information: **first number, semester credit hours; second number, lecture hours per week; third number, laboratory hours per week; F** (Fall), **W** (Winter), **S** (Spring), **Su** (Summer), **Q** (Quarterly), **X** (As Needed), **F,** 1976 (will be offered Fall, 1976).

Example:

201—**Principles of Accounting I.** 3-4-0-**Q.** (3 semester hours credit, 4 hours lecture per week, no laboratory, Quarterly).

Some courses (such as Student Teaching) require many hours of outside work. These courses are listed as: 9-0-0, meaning that the hours of classwork may be in or out of a class room.

ACCOUNTING (ACC—605)

201—**Principles of Accounting I.** 3-4-0-**Q.** An introduction course to familiarize the students with fundamental principles and methods.

202—**Principles of Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 201. A continuation of ACC 201.

204—**Principles of Accounting—Accelerated.** 6-8-0-**F.** A combination of ACC 201 and ACC 202. Taken in lieu of ACC 201 and ACC 202 but not in addition to either.

300—**Administrative Applications of Accounting.** 3-4-0-**Q.** Prerequisite: ACC 202. The use of accounting information by management. May not be taken for credit toward an accounting major.

301—**Intermediate Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 202. An intensive study of financial statement theory and preparation.

302—**Intermediate Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 301. A continuation of ACC 301.

304—**Intermediate Accounting—Accelerated.** 6-8-0-**W.** Prerequisite: ACC 202. A combination of ACC 301 and ACC 302. Taken in lieu of ACC 301 and ACC 302 but not in addition to either.

320—**Elementary Cost Accounting.** 3-4-0-**Q.** Prerequisite: ACC 202. A study of cost accounting systems and methods.

330—**Federal Income Tax Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 301. A study of federal income tax law with emphasis on the taxation of individuals.

401—**Advanced Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 302. A continuation of ACC 302.

402—**Advanced Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 401 or consent of instructor. A continuation of ACC 401.

405—**Current Accounting Theory and Research.** 3-4-0-**Q.** Prerequisite: ACC 320, 402, 409 or consent of instructor. A study of the accounting literature with emphasis on contemporary problems.

409—**Auditing.** 3-4-0-**Q.** Prerequisite: ACC 302. An introduction to the financial statement attest function.

420—**Advanced Cost Accounting and Budgeting.** 3-4-0-**Q.** Prerequisite: ACC 320. A continuation of ACC 320 with emphasis on cost analysis for decision making.

430—**Federal Income Tax Accounting II.** 3-4-0-**F,W,S.** Prerequisite: ACC 330. A study of the federal income tax law applicable to individuals, corporations, partnerships, estates, and trusts.

450—**Accounting Systems.** 3-4-0-**X.** Prerequisite: ACC 302. A study of the alternative methods of collecting accounting data.

492—**Research in Accounting Problems.** 1-3 hrs. arr. **Q.** Prerequisite: Senior standing and consent of instructor. Individual research on an approved topic of interest to the student.

ADULT EDUCATION (CIA—110)

440—**Methods and Materials in Adult Basic Education.** 3-4-0-**X.** Reviews the uses and adaptation of various materials and techniques for teaching adults. Relates content and methods.

441—**Foundations of Reading Instruction for the Adult.** 3-4-0-**X.** Examines the basis of reading instruction in relation to the needs and characteristics of the non-literate adult.

442—**Methods and Materials for Teaching Adults to Read.** 3-4-0-**X.** Materials, diagnostic and evaluative procedures, and laboratory experiences will be included.

445—**Teaching the Disadvantaged Adult.** 3-4-0-**F.** Characteristics, needs and problems are related to programs and procedures found to be successful.

490—**Special Problems in Adult Education.** 1-3 hrs. arr. **X.** May be arranged for an individual or a group with common interests. Permission of the department chairman required.

495—**Internship in Adult Education.** 9-0-0-**F.** A nine-months' supervised experience for practicing teachers of adults. Offered fall through spring only.

AEROSPACE STUDIES (AOS—202)

First-Year Aerospace Studies

101—**General Military Course.** 1-1-1-**F.** An introductory course to familiarize the student with the Mission, Doctrine, and Organization of the U.S. Air Force.

102—**General Military Course.** 1-1-1-**W.** Examines the functions and employment of U.S. Strategic Offensive and Defensive Forces.

103—**General Military Course.** 1-1-1-**S.** Examines the functions and employment of U.S. General Purpose and U.S. Aerospace Support Forces.

Second-Year Aerospace Studies

201—**The Developmental Growth of Air Power.** 1-1-1-**F.** Focuses upon a variety of events and personalities contributing to the development of air power as a primary element of national security.

202—**The Developmental Growth of Air Power.** 1-1-1-**W.** Examines the concepts of employing air power and factors which have prompted research and technological change.

203—**The Developmental Growth of Air Power.** 1-1-1-**S.** Examines the changing mission of the defense establishment, emphasizing the impact of air power on strategic thought.

Third-Year Aerospace Studies

301—**National Defense Forces in Contemporary American Society.** 2-4-1-**F.** Examines the role and function of the professional military within a democratic society.

302—**National Defense Forces in Contemporary American Society.** 2-4-1-**W.** Focuses on the prerequisites for maintaining adequate national security forces.

303—**National Defense Forces in Contemporary American Society.** 2-4-1-**S.** Studies the fundamental processes of institutional structures involved in the formulation and implementation of U.S. Defense policies.

Fourth-Year Aerospace Studies

401—**Military Leadership and Discipline.** 2-4-1-**F.** Examines the basic concepts of leadership as related to the duties of an Air Force officer.

402—**Leadership and Management Skills.** 2-4-1-**W**. Examines the responsibility, authority, and functions of the Air Force commander and his staff.

403—**Military Management and Pre-Commissioning.** 2-4-1-**S**. Examines the basic concepts of management as related to the duties of an Air Force officer.

404—**Flight Instruction Program.** 2-5-0-**F**. Includes a classroom phase in principles of flight, weather, and navigation and a 35 hour Flight Instruction Phase.

ALLIED ARTS (AA—655)

100—**Introduction to the Arts.** 3-4-0-**Q**. An overview of the fine arts with examination, through team teaching, of the nature of musical, plastic, and theatrical art forms.

ANTHROPOLOGY (ANT—286)

REL 332—**Primitive Religion,** may also be offered by students as credit towards a major or minor in anthropology.

211—**General Anthropology.** 3-4-0-**Q**. A beginning course in anthropology stressing the origin and the evolution of man, culture, and society.

212—**Cultural Anthropology.** 3-4-0-**Q**. A comparative approach to the analysis of human cultural and social diversity. Includes an outline survey of world culture areas.

213—**Physical Anthropology.** 3-4-0-**W,Su**. Origin and description of the diverse races of man.

214—**Introduction to Archeology.** 3-4-0-**F,S**. Methods and findings of archeological research. Students will also have the opportunity to participate in a local "dig."

311—**Language and Culture.** 3-4-0-**F**. Origin and inter-relationship of the major languages of the world.

312—**Peoples and Cultures of Europe.** 3-4-0-**S**. Ethnology of Europe and the adjacent North African and Middle Eastern territories.

313—**Peoples and Cultures of Africa.** 3-4-0-**F**. An ethnological survey of the major culture areas of the African continent with particular reference to Sub-Saharan Africa.

314—**Peoples and Cultures of the Orient.** 3-4-0-**S**. Ethnological survey of Asia, Oceania, and Australasia.

315—**Peoples and Cultures of the Americas.** 3-4-0-**W**. Ethnological survey of the Americas stressing pre-Columbian and North American Indian cultures.

320—**Urban Anthropology.** 3-4-0-**W**. Origin, evolution, and problems of urban communities including a survey of the techniques employed by urban anthropologists.

411—**Comparative Indo-European Studies.** 3-4-0-**W**. A comparative survey emphasizing the effective interpretation of archeological, historical, linguistic, and mythological data.

412—**Mythology and Folklore.** 3-4-0-**S**. A survey of the major folklore traditions.

413—**Anthropological Theory.** 3-4-0-**W**. A general survey of the history of anthropological thought and of the major contemporary schools of anthropological theory.

414—**Methods and Field Work in Archeology.** 3-2-2-S. Methodology and techniques of archeological field work including participation in organized field projects.

420—**Culture and Ethnicity.** 3-4-0-S. An analysis of culture and ethnicity with special reference to the problem of modernization.

425—**Seminar in Anthropology.** 3-4-0-S. Guided research and discussion for anthropology majors.

492—**Special Problems.** 1-3 hrs. arr. **X.** A problem study to be approved by the department chairman.

APPLIED MUSIC AND ORGANIZATIONS (APM—670)

First Year

101-102-103—**Piano.** 1-2 hrs. arr.
111-112-113—**Organ.** 1-2 hrs. arr.
114-115-116—**Flute.** 1-2 hrs. arr.
117-118-119—**Oboe.** 1-2 hrs. arr.
120-121-122—**Clarinet.** 1-2 hrs. arr.
123-124-125—**Saxophone.** 1-2 hrs. arr.
126-127-128—**Bassoon.** 1-2 hrs. arr.
129-130-131—**Horn.** 1-2 hrs. arr.
132-133-134—**Trumpet.** 1-2 hrs. arr.
135-136-137—**Trombone.** 1-2 hrs. arr.
138-139-140—**Euphonium.** 1-2 hrs. arr.
141-142-143—**Tuba.** 1-2 hrs. arr.
144-145-146—**Violin.** 1-2 hrs. arr.
147-148-149—**Viola.** 1-2 hrs. arr.
150-151-152—**Cello.** 1-2 hrs. arr.
153-154-155—**String Bass.** 1-2 hrs. arr.
156-157-158—**Percussion.** 1-2 hrs. arr.
161-162-163—**Voice.** 1-2 hrs. arr.
164-165-166—**Harp.** 1-2 hrs. arr.
171-172-173—**Ensemble.** 1 hr. arr.
191-192-193—**Composition.** 1 hr. arr.

181—**Orchestra.** 1 hr. (May be taken three times)

182—**Band.** 1 hr. (May be taken three times)

183—**Chorus.** 1 hr. (May be taken three times)

184—**Jazz Lab Band.** 1 hr. (May be taken three times)

Second Year

201-202-203—**Piano.** 1-2 hrs. arr.
211-212-213—**Organ.** 1-2 hrs. arr.
214-215-216—**Flute.** 1-2 hrs. arr.
217-218-219—**Oboe.** 1-2 hrs. arr.
220-221-222—**Clarinet.** 1-2 hrs. arr.
223-224-225—**Saxophone.** 1-2 hrs. arr.
226-227-228—**Bassoon.** 1-2 hrs. arr.
229-230-231—**Horn.** 1-2 hrs. arr.
232-233-234—**Trumpet.** 1-2 hrs. arr.
235-236-237—**Trombone.** 1-2 hrs. arr.
238-239-240—**Euphonium.** 1-2 hrs. arr.
241-242-243—**Tuba.** 1-2 hrs. arr.
244-245-246—**Violin.** 1-2 hrs. arr.
247-248-249—**Viola.** 1-2 hrs. arr.
250-251-252—**Cello.** 1-2 hrs. arr.
253-254-255—**String Bass.** 1-2 hrs. arr.

256-257-258—**Percussion.** 1-2 hrs. arr.
261-262-263—**Voice.** 1-2 hrs. arr.
264-265-266—**Harp.** 1-2 hrs. arr.
271-272-273—**Ensemble.** 1 hr. arr.
291-292-293—**Composition.** 1 hr. arr.

281—**Orchestra.** 1 hr. (May be taken three times)

282—**Band.** 1 hr. (May be taken three times)

283—**Chorus.** 1 hr. (May be taken three times)

284—**Jazz Lab Band.** 1 hr. (May be taken three times)

Third Year

301-302-303—**Piano.** 1-2 hrs. arr.
311-312-313—**Organ.** 1-2 hrs. arr.
314-315-316—**Flute.** 1-2 hrs. arr.
317-318-319—**Oboe.** 1-2 hrs. arr.
320-321-322—**Clarinet.** 1-2 hrs. arr.
323-324-325—**Saxophone.** 1-2 hrs. arr.
326-327-328—**Bassoon.** 1-2 hrs. arr.
329-330-331—**Horn.** 1-2 hrs. arr.
332-333-334—**Trumpet.** 1-2 hrs. arr.
335-336-337—**Trombone.** 1-2 hrs. arr.
338-339-340—**Euphonium.** 1-2 hrs. arr.
341-342-343—**Tuba.** 1-2 hrs. arr.
344-345-346—**Violin.** 1-2 hrs. arr.
347-348-349—**Viola.** 1-2 hrs. arr.
350-351-352—**Cello.** 1-2 hrs. arr.
353-354-355—**String Bass.** 1-2 hrs. arr.
356-357-358—**Percussion.** 1-2 hrs. arr.
361-362-363—**Voice.** 1-2 hrs. arr.
364-365-366—**Harp.** 1-2 hrs. arr.
371-372-373—**Ensemble.** 1 hr. arr.
375-376-377—**Accompanying.** 1 hr. arr.
391-392-393—**Composition.** 1-2 hrs. arr.

370—**Recital.** 0-1 hr. arr.

381—**Orchestra.** 1 hr. (May be taken three times)

382—**Band.** 1 hr. (May be taken three times)

383—**Chorus.** 1 hr. (May be taken three times)

384—**Jazz Lab Band.** 1 hr. (May be taken three times)

Fourth Year

401-402-403—**Piano.** 1-2 hrs. arr.
411-412-413—**Organ.** 1-2 hrs. arr.
414-415-416—**Flute.** 1-2 hrs. arr.
417-418-419—**Oboe.** 1-2 hrs. arr.
420-421-422—**Clarinet.** 1-2 hrs. arr.
423-424-425—**Saxophone.** 1-2 hrs. arr.
426-427-428—**Bassoon.** 1-2 hrs. arr.
429-430-431—**Horn.** 1-2 hrs. arr.
432-433-434—**Trumpet.** 1-2 hrs. arr.
435-436-437—**Trombone.** 1-2 hrs. arr.
438-439-440—**Euphonium.** 1-2 hrs. arr.
441-442-443—**Tuba.** 1-2 hrs. arr.
444-445-446—**Violin.** 1-2 hrs. arr.
447-448-449—**Viola.** 1-2 hrs. arr.
450-451-452—**Cello.** 1-2 hrs. arr.

453-454-455—**String Bass.** 1-2 hrs. arr.
456-457-458—**Percussion.** 1-2 hrs. arr.
461-462-463—**Voice.** 1-2 hrs. arr.
464-465-466—**Harp.** 1-2 hrs. arr.
471-472-473—**Ensemble.** 1 hr. arr.
475-476-477—**Accompanying.** 1 hr. arr.
491-492-493—**Composition.** 1-2 hrs. arr.
470—**Recital.** 1-2 hrs. arr.

481—**Orchestra.** 1 hr. (May be taken three times)

482—**Band.** 1 hr. (May be taken three times)

483—**Chorus.** 1 hr. (May be taken three times)

484—**Jazz Lab Band.** 1 hr. (May be taken three times)

ART (ART—660)

(*Permission of instructor necessary)

101—**Drawing I.** 3-2-6-**F,W,Su**. A study of the possibilities of drawing as the expression of a variety of ways of seeing and thinking.

102—**Drawing II.** 3-2-6-**W,Su**. Prerequisite: ART 101*. A continuation of ART 101.

103—**Drawing III.** 3-2-6-**S,Su**. Prerequisite: ART 102*. A continuation of ART 102.

111—**Design I.** 3-2-6-**Q**. A study of the elements of plastic structure and some principles of ordering them toward expression.

112—**Design II.** 3-2-6-**W,Su**. Prerequisite: ART 111*. A continuation of ART 111.

113—**Design III.** 3-2-6-**S,Su**. Prerequisite: ART 112*. A continuation of ART 112.

131—**Theoretical Foundations.** 3-4-0-**Q**. A study of the scope and nature of the plastic expressions with some bases for criticism.

201—**Figure Drawing I.** 3-2-6-**Q**. Prerequisite: *. Study of the construction and use of the human figure in design. Drawing from the model in various media.

202—**Figure Drawing II.** 3-2-6-**Q**. A continuation of ART 201.

203—**Figure Drawing III.** 3-2-6-**Q**. A continuation of ART 202.

221—**Technical Foundations for Painting.** 3-2-6-**Q**. Prerequisites: ART 103 and 113*. Experimental problems with traditional painting media and techniques.

301—**Drawing.** 3-2-6-**Q**. Prerequisite: ART 103*. Expressive use of a variety of perspective systems.

304—**Workshop in Drawing.** 1,3-2-6-**X**. A variety of drawing experiences which may be pursued by students at various levels. May not be used toward the major or minor.

305—**Graphic Arts I.** 3-2-6-**X**. Prerequisites: ART 103 and 113*. A study of design for, and techniques of, the various graphic arts (etching, drypoint, lithograph). Studio problems.

306—**Graphic Arts II.** 3-2-6-**X**. Prerequisite: ART 305. Further problems in design and production using various graphic media.

307—**Graphic Arts III.** 3-2-6-**X**. A continuation of ART 306.

311—**Design.** 3-2-6-**W,Su**. Prerequisite: ART 113*. Studio problems in design.

312—**Design.** 3-2-6-S. Prerequisite: ART 113*. Studio problems in design.

313—**Design.** 3-2-6-S. Prerequisite: ART 113*. Studio problems in design.

321—**Painting I.** 3-2-6-**F,Su**. Prerequisite: ART 221*. Problems in painting, using relatively direct visual reference to the external world.

322—**Painting II.** 3-2-6-**W,Su**. Prerequisite: ART 321*. A continuation of ART 321.

323—**Painting III.** 3-2-6-**F,Su**. Prerequisite: ART 221*. Problems in painting focusing on abstract elemental relationships.

324—**Workshop in Painting.** 1-3-2-6-**X**. A variety of painting experiences which may be pursued by students at various levels. May not be used toward the major or minor.

331—**Directed Museum and Gallery Tour.** 1-**X**. An elective addedum to ART 131. Field trip and tour of a number of galleries and museums for the viewing of original works.

332—**History of Art I.** 3-4-0-**F**. Ancient art. A survey course.

333—**History of Art II.** 3-4-0-**W**. Medieval art. A survey course.

334—**History of Art III.** 3-4-0-**S**. Renaissance and Baroque art. A survey course.

335—**History of Art IV.** 3-4-0-**Q**. Nineteenth and twentieth century art. A survey course.

341—**Commercial Techniques I.** 3-2-6-**F,Su**. Prerequisites: ART 103 and 113*. Recommended for those interested in any form of commercial art. The rendering of objects and materials for commercial presentation.

342—**Commercial Techniques II.** 3-2-6-**W,Su**. Prerequisites: ART 103 and 113*. Hand and precision lettering and advertising and show card layout.

343—**Commercial Techniques III.** 3-2-6-**W,Su**. Prerequisites: ART 341, 342*. A study of commercial illustrative techniques and their application to a variety of layout problems.

344—**Illustration.** 3-2-6-**S,Su**. Prerequisites: ART 201 and 103*. Practical problems in the illustration. Studies involving the relation of medium and technique to subject.

351—**Three Dimensional Techniques.** 3-2-6-**F,S**. Prerequisite: ART 113. Experimental and traditional techniques in the manipulation of clay and plaster, including cold casting operations.

352—**Three Dimensional Techniques.** 3-2-6-**W,S**. Prerequisite: ART 113. Experimental and traditional techniques in manipulation of metal and wood for expressive purposes.

421—**Painting IV.** 3-2-6-**W,Su**. Prerequisite: ART 323*. A continuation of ART 323.

422—**Painting V.** 3-2-6-**S,Su**. Prerequisite: ART 421*. A continuation of ART 421.

423—**Painting VI.** 3-2-6-**S,Su**. Prerequisite: ART 421. A continuation of ART 421.

428—**Painting Project.** 3-2-6-**Q**. Prerequisites: ART 422, 423*. Full quarter series or unit project in painting involving considerable research. Seminar.

431—**Ancient Art.** 3-4-0-**X**. Prerequisite: ART 332. The artistic achievements of the ancient world. A careful analysis of important examples correlated with their background.

432—**Medieval Art.** 3-4-0-**X.** Prerequisite: ART 333. A study of the art of the western civilizations from the fall of the Roman Empire to the end of the fourteenth century.

433—**Renaissance Art.** 3-4-0-**X.** Prerequisite: ART 333. The art of Italy, France, Germany, Spain, and the Low Countries from the close of the Middle Ages through the sixteenth century.

434—**Baroque and Rococo Art.** 3-4-0-**X.** Prerequisite: ART 333 and 334. The tracing of these movements through the western world from the close of the sixteenth through the eighteenth century.

435—**Nineteenth Century Art.** 3-4-0-**X.** Prerequisite: ART 334. An analysis of Neo-Classicism, Romanticism, and Impressionism.

436—**Twentieth Century Art.** 3-4-0-**X.** Prerequisite: ART 334. An analysis of Fauvism, Cubism, Futurism, Surrealism, and Expressionism.

441—**Graphic Communication I.** 3-2-6-**F,Su.** Prerequisite: ART 343*. Practical problems in advertising design, with particular attention to modern reproduction methods.

442—**Graphic Communication II.** 3-2-4-**W,Su.** Prerequisite: ART 441. A continuation of ART 441 including a study of color separation techniques and typographic experiments.

443—**Graphic Communication III.** 3-2-4-**S,Su.** Prerequisite: ART 442. A continuation of ART 442, with particular emphasis on professional procedure.

448—**Graphic Communication Project.** 3-2-4-**Q.** Prerequisite: ART 443*. Full quarter series or unit project in advertising design and presentation involving considerable research. Seminar.

451—**Three Dimensional Expression.** 3-2-4-**Q.** Prerequisites: ART 351 and/or 352. Aesthetic problems in three dimensional expression.

452—**Three Dimensional Expression.** 3-2-4-**Q.** A continuation of ART 451.

453—**Three Dimensional Expression.** 3-2-4-**Q.** Prerequisite: ART 351 and/or 352. Problems in three dimensional expression involving some utilitarian considerations.

454—**Three Dimensional Expression.** 3-4-0-**Q.** A continuation of ART 453.

458—**Three Dimensional Design Project.** 3-2-4-**Q.** Prerequisites: ART 452 and 454. Full quarter series or unit project in three dimensional expression involving considerable research. Seminar.

ART EDUCATION (ARE—665)

207—**Introductory Art.** 3-1-2-**Q.** For non-art majors. Fundamentals of lettering drawing, perspective light and shade, color theory, design, and display techniques.

309—**Elementary School Art.** 3-1-2-**Q.** Prerequisite: ARE 207 (elementary education majors); ART 101 and ART 111 (art education majors). An application of art theory and techniques to the elementary classroom situation.

310—**Public School Art.** 3-1-2-**F.** Prerequisite: ARE 309. An application of art theory and techniques to the secondary classroom situation.

320—**Directed Tour of Exemplary Art Education Programs.** 3-3-0-**X.** Prerequisite: ARE 309 or 310. A course designed to give the art education major a chance to observe exemplary art education programs in operation in the U.S. or abroad.

392—**Special Projects for Teachers I, II.** 2-1-1-**X**. Prerequisite: ART 207. Projects in art and methods of presentation to children in the elementary grades. Need not be taken in sequence.

412—**Crafts I.** 3-1-2-**F**. Prerequisite: ART 113. A study of the techniques and problems involved in the creation and design of jewelry.

413—**Crafts II.** 3-1-2-**F,W**. Prerequisite: ART 113 or ARE 412. A continuation of ARE 412 with emphasis in lapidary work.

414—**Crafts III.** 3-1-2-**S**. Prerequisite: ART 113 or ARE 412. A study of the techniques and problems involved in the creation and design of various fabrics with fibrous materials.

415—**Trends in Current Plastic Expression.** 3-1-2-**Su**. A course designed to keep the student abreast of current trends in the plastic arts.

420—**Adapting Selected Current Art Trends.** 3-2-1-**X**. Art trends are identified and developed in terms of philosophies, practitioners, background, and techniques.

426—**Curriculum and Instruction in Art Education.** 3-2-1-**W**. A study of the art curriculums and instructional programs in the public schools in grades K through twelve.

492—**Art Education Project.** 3-1-2-**Q**. Prerequisite: ARE 309 and ARE 310. A research project of considerable scope and depth in the area of specialized art techniques as applied to the classroom situation.

ASTRONOMY (AST—365)

311—**General Astronomy.** 3-4-0-**F**. Prerequisite: MAT 100 or 101. Introduction to the coordinate systems of the earth and celestial sphere, time and its applications. The solar system.

312—**General Astronomy.** 3-4-0-**W**. Prerequisite: MAT 100 or 101. Astronomical relations of light, atomic theory, spectroscopy. Further topics on the solar system, comets and meteorites.

313—**General Astronomy.** 3-4-0-**S**. Prerequisite: MAT 100 or 101. Astronomical measurements, star classifications, galaxies, and the stellar energy cycle.

315—**General Astronomy Laboratory.** 1-0-3-**F**. Corequisite: AST 311. Experiments in astronomical measurements.

316—**General Astronomy Laboratory.** 1-0-3-**W**. Corequisite: AST 312. Experiments in astronomical measurements.

317—**General Astronomy Laboratory.** 1-0-3-**S**. Corequisite: AST 313. Experiments in astronomical measurements.

ATHLETIC ADMINISTRATION AND COACHING (AAC—710)

The below listed **Physical Education** courses are offered by the Department of Athletic Administration and Coaching.

210—**Varsity Football.** 1-2-0-**F**.

211—**Varsity Basketball.** 1-2-0-**W**.

212—**Varsity Baseball.** 1-2-0-**S**.

213—**Varsity Track and Field.** 1-2-0-**F**.

214—**Varsity Tennis.** 1-2-0-**S**.

215—**Varsity Golf.** 1-2-0-**S**.

220—**Coachng Women's Basketball.** 2-2-0-**W**. The selection, practice, and training of players. Offensive and defensive strategy.

240—**Techniques of Officiating Minor Sports.** 3-4-0-**F,S**. Personal skills and officiating techniques in varsity sports. To include track and field, swimming, golf, and tennis.

300—**Foundations and Trends in Athletics and Coaching.** 3-4-0-**W,S**. The role of athletics in society. The sociological, cultural, and ethical dealings with athletics as it relates to coaching.

303—**Organization and Administration of High School Athletics.** 3-4-0-**F,W,S**. The organizational and administrative procedures of major and minor sports programs.

320—**Basic Techniques of Coaching Football.** 3-4-0-**F,W,S**. The study of offensive and defensive fundamentals. The philosophies, terminology, strategy, and individual techniques used in football.

321—**Basic Techniques of Coaching Basketball.** 3-4-0-**F,S**. A study of basketball fundamentals. The history, philosophy, terminology, strategy, and individual techniques of basketball.

340—**Coaching Golf.** 2-2-0-**Q**. Theoretical and practical approach to golf instruction. Course planning and maintenance, rules and etiquette, and tournament administration.

341—**Coaching Tennis.** 2-2-0-**Q**. Techniques of coaching tennis. Construction and maintenance of tennis courts. Organization and administration of a tennis program.

360—**The Organization and Administration of Aquatics.** 3-4-0-**F,S**. Community and school swimming programs, pool operation, maintenance, and sanitation.

361—**Coaching Swimming and Diving.** 3-4-0-**W,Su**. Fundamental principles involved in swimming and diving. Selection and placement of personnel, practice schedules, and training techniques.

362—**Life Saving and Water Safety.** 2-2-0-**Q**. Prerequisite: Proficiency in swimming. American Red Cross Senior Life Saving Certificate awarded upon course completion.

400—**Development of Athletic Attributes.** 3-4-0-**Q**. The development and administering of strength, endurance, flexibility, reaction, speed, and agility programs.

401—**Practice, Organization, Scouting, and Communication Techniques.** 3-4-0-**F,S,Su**. Daily practice plans. Scouting techniques, cinematography, instructional materials, techniques, and equipment for coaches.

420—**Techniques of Officiating Sports.** 3-4-0-**F,W,S**. Personal skills and officiating techniques of sports.

421—**Advanced Techniques of Coaching Football.** 3-4-0-**F,S,Su**. Player selection, offensive and defensive formations, and game organization and strategy.

422—**Advanced Techniques of Coaching Basketball.** 3-4-0-**W,Su**. The criteria of player selection with emphasis on the area of theory, principles, and techniques of offensive and defensive planning and strategy.

423—**Coaching Baseball.** 3-4-0-**W,S,Su**. The study of advanced techniques of baseball. Emphasis placed on player selection and placement, team organization, and game strategy.

424—**Coaching Track and Field.** 3-4-0-**F,W,S**. Selecting personnel, fundamentals, and training techniques.

460—**Water Safety Instructor's Course.** 3-4-0-**Q**. Prerequisite: AAC 362. Knowledge and skills beyond the scope of Senior Life Saving, certifying personnel to conduct water safety courses in schools and communities.

The below listed **Health** courses are offered by the Department of Athletic Administration and Coaching.

370—**Prevention and Care of Athletic Injuries.** 3-4-0-**F,S**. Theory and practice for the prospective trainer and coach.

371—**Diagnostic Techniques.** 3-4-0-**W,S**. A specialized course dealing with anatomy, injury symptoms, and specific tests to help make preliminary evaluation of injuries.

372—**Athletic Therapy Modalities.** 2-2-0-**X**. The theory and operation of the most commonly used therapeutic devices of the training room.

373—**Strength, Conditioning, and Rehabilitation.** 2-2-0-**X**. Building stronger athletes, developing maximum efficiency, and post-injury rehabilitation.

470—**Medical Aspects of Athletic Training.** 3-4-0-**W**. Team physician and trainer relationships. Physical examination, emergency equipment, medical terminology, and problems related to the team doctor.

471—**Training Room Practice.** 2-2-0-**F,W,S**. Practical training room experiences consisting of observation and actual practice of training room techniques.

472—**Field Experience in Athletic Training.** 3-4-0-**X**. During the senior year, all students working toward an athletic training certificate will be given actual practice in the field.

BIOLOGY (BIO—305)

101—**Principles of Biology.** 4-3-3-**Q**. Basic functions of living organisms, including metabolism, reproduction, and control mechanisms, primarily at the cellular level.

102—**Diversity of Life.** 4-3-3-**Q**. Prerequisite: BIO 101. Survey of organisms of plant and animal kingdom. Evolutionary trends and relations to man are stressed.

202—**Vertebrate Biology.** 4-3-3-**Q**. Prerequisite: BIO 101. Anatomy and physiology of vertebrate systems (including human). Correlation of structure and function is emphasized.

220—**Human Anatomy and Physiology I.** 3-3-2-**F,Su**. An integrated presentation of the structure and function of cells and tissues, including skeleton, muscle, and blood. Carries no credit for biology majors.

221—**Human Anatomy and Physiology II.** 3-3-2-**W,Su**. Prerequisite: BIO 220. An integrated presentation of the structure and function of the cardiovascular, urinary, respiratory, and digestive systems. Carries no credit for biology majors.

222—**Human Anatomy and Physiology III.** 3-3-2-**S,Su**. Prerequisite: BIO 221. An integrated presentation of the structure and function of the nervous, endocrine, and reproductive systems. Carries no credit for biology majors.

250—**Ornamental Horticulture.** 3-2-3-**X**. Study of the factors necessary for the growth, propagation, recognition, and control of ornamental plants.

251—**Landscape Planning.** 3-2-3-**X**. Soil conditioning, shrubbery placement, and care and maintenance of managed landscapes.

310—**Microtechnique.** 3-1-6-**F**. Prerequisite: Consent of instructor. Techniques for sectioning, mounting, and staining tissue and making whole mounts.

315—**Cellular Physiology.** 3-3-0-**F,S,Su**. Prerequisites: 8 hours of biology, 9 hours of chemistry. Cellular anatomy, chemistry, and physics.

320—**Comparative Anatomy I.** 3-2-4-**F,W,Su**. Prerequisites: BIO 101, 102, 202. Phylogeny of the chordates, with special emphasis on vertebrate organ systems.

321—**Comparative Anatomy II.** 3-2-4-**W,S,Su**. Prerequisites: BIO 320 or consent of instructor. Phylogeny of the chordates, with laboratory work devoted to the study of mammals.

339—**Herpetology.** 3-2-4-**F**. Prerequisites: BIO 101, 102. Collection, preservation, identification, and distribution of amphibians and reptiles. Field trips when possible.

340—**Dendrology.** 3-2-4-**X**. Prerequisites: BIO 101, 102. The taxonomic and ecological characteristics, and the distribution of trees.

401—**History of Biology.** 2-2-0-**X**. Lectures and papers concerning the development of biological sciences.

410—**Electron Microscopy.** 3-3-3-**X**. Theory and use of the electron microscope and associated instrumentation, and darkroom techniques.

411—**Histology.** 3-3-2-**X**. Prerequisite: 12 hours of biology. Microscopic anatomy of mammalian organ systems.

420—**Embryology I.** 3-2-4-**W**. Prerequisites: BIO 101, 102. Embryology of vertebrates. Maturation, fertilization, cleavage, origin and development of germ layers, histogenesis, and organogenesis.

421—**Embryology II.** 3-2-4-**X**. Prerequisite: BIO 420. The embryological development of vertebrates, especially the chicken and the pig.

422—**Experimental Embryology.** 3-2-4-**X**. Prerequisite: BIO 420. Factors which activate or regulate developmental processes.

423—**Protozoology.** 3-2-4-**X**. Prerequisites: BIO 101, 102. Introduction to parasitic and free-living protozoa.

424—**Human Protozoology.** 3-2-4-**W,Su**. Prerequisites: BIO 101, 102. Life histories, epidemiology, and diagnostic characteristics of protozoans parasitic in man.

425—**Human Helminthology.** 3-2-4-**F,Su**. Prerequisites: BIO 101, 102. Life histories, systematics, and host relationships of helminths of medical significance.

426—**Medical Entomology.** 3-2-4-**W**. Prerequisite: Consent of instructor. Arthropod vectors and agents of disease.

430—**Mammalian Physiology I.** 3-3-2-**F**. Prerequisites: BIO 101, 202, 321. Functioning of major mammalian systems emphasizing interrelationships and regulation.

431—**Mammalian Physiology II.** 3-3-2-**W**. Prerequisite: BIO 430. Study of system function, coordination, and control.

432—**Comparative Animal Physiology I.** 3-2-4-**W**. Prerequisites: 12 hours of biology, 9 hours of chemistry. Comparisons of systems and adaptations of vertebrates.

433—**Comparative Animal Physiology II.** 3-2-4-**S,Su**. Prerequisite: BIO 432. Comparison of vertebrate function in relation to the environment.

434—**Endocrinology.** 3-3-0-**W**. Prerequisite: BIO 101, 202, or consent of instructor. Survey of the endocrine glands and their role in regulating the physiological processes of mammals.

436—**Invertebrate Zoology I.** 3-2-4-**F**. Prerequisites: BIO 101, 102. Survey of Invertebrate Phyla Protozoa to Annelida.

437—**Invertebrate Zoology II.** 3-2-4-**W**. Prerequisite: BIO 436. Survey of Invertebrate Phyla through Hemichordata.

438—**Entomology.** 3-2-4-**F**. Structural adaptations, classification, life histories and habits, and the economic importance of insects.

440—**Ichthyology.** 3-2-4-**F**. Prerequisites: BIO 101, 102, 202. Collection, preservation, and identification of local fishes and fish-like vertebrates, with emphasis on fresh water. Field work.

441—**Ornithology.** 3-2-4-**S**. Prerequisites: BIO 320, 321 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of birds.

442—**Mammalogy.** 3-2-4-**W**. Prerequisites: BIO 320, 321 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of mammals.

443—**Principles of Nomenclature.** 2-2-0-**X**. Prerequisite: Consent of instructor. Discussions and problems in biological nomenclature.

448—**Introductory Mycology.** 3-2-4-**W**. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of fungi.

449—**Introductory Phycology.** 3-2-4-**X**. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of the algae.

450—**Plant Anatomy.** 3-2-4-**X**. Prerequisite: BIO 102. A study of the anatomy of vascular plants.

451—**Morphology of Non-Vascular Plants.** 3-2-4-**W**. Prerequisite: BIO 101, 102. Life cycles, evolution, and diagnostic characteristics of representative algae, fungi, lichens, liverworts, and mosses.

452—**Morphology of Vascular Plants.** 3-2-4-**S**. Prerequisites: BIO 101, 102. Life cycles, evolution, and diagnostic characteristics of representative ferns, fern allies, and seed plants.

453—**Aquatic and Marsh Plants.** 3-2-4-**F,S**. Prerequisite: Consent of instructor. Collection, identification, and ecology of aquatic and marsh plants of fresh and brackish water.

454—**Plant Physiology.** 3-2-4-**X**. Prerequisites: General and organic chemistry recommended. The basic physiological processes of green plants.

455—**Economic Botany.** 3-2-4-**X**. Prerequisite: BIO 102 or consent of instructor. Origin, distribution, and significance of plants most important to man.

456—**Plant Pathology.** 3-2-4-**X**. Prerequisite: BIO 102. Taxonomy, physiology, and control of economically important plant pathogens.

457—**Taxonomy of Higher Plants.** 3-2-4-**X**. Prerequisites: BIO 101, 102. The classification of seed plants.

460—**Biogeography.** 2-2-0-**W**. Prerequisite: Consent of instructor. A descriptive and analytical study of the distribution of plants and animals.

461—**Ecology I.** 3-2-4-**F**. Prerequisites: BIO 101, 102, or consent of instructor. Interrelations between organisms and their environment. Biogeochemical cycles. Limiting factors, productivity, and energy transfer. Ecological succession.

462—**Ecology II.** 3-2-4-**W.** Prerequisite: BIO 461. Ecological effects of environmental factors and relationship of respiration and osmoregulation. Population growth.

465—**Freshwater Biology.** 3-2-4-**Su.** Prerequisite: Consent of instructor. Collection, identification, and ecology of aquatic organisms significant to the assessment of water quality.

466—**Limnology.** 3-2-4-**S.** Prerequisites: BIO 461 and 462 strongly recommended, and consent of instructor. The physical, chemical, and biological conditions in lakes, ponds, and streams.

467—**Introduction to Biological Oceanography.** 3-2-4-**X.** Prerequisites: BIO 461 and 462. Ocean basin topography, distribution of bottom sediments, and physical and chemical characteristics of sea water.

470—**Ecology of Parasitic and Vector-Borne Diseases.** 2-2-0-**X.** Prerequisite: Consent of instructor. Transmission and pathogenesis of parasitic and vectorborne diseases in their ecological frameworks.

475—**Plant Ecology.** 3-3-2-**X.** Prerequisite: Advanced standing in botany. Relationship of plants to their environment.

492—**Biological Problems I, II, III, IV.** 1-6 hrs. arr. Courses in special techniques, designed for majors with a need for certain basic techniques as tools for research.

493—**Field Biology.** 2-6 hrs. arr. Prerequisite: Consent of instructor. Ecological and taxonomic studies of the fauna and flora of a variety of habitats. Offered between quarters as 4- to 6-day field trips.

496—**Undergraduate Seminar I, II, III.** 1-3 hrs. arr. **X.** The presentation and discussions of current biological topics.

The Following Courses are Taught at the Gulf Coast Research Laboratory in Ocean Springs by the Gulf Coast Research Laboratory Staff

481—**Marine Vertebrate Zoology.** 6-6-12-**Su.** Prerequisite: 16 hours of biology, including comparative anatomy. A formal lecture and laboratory survey of all marine chordates; the lower subphyla, fishes, reptiles, mammals, and shore birds.

483—**Marine Invertebrate Zoology I.** 6-6-12-**Su.** Prerequisites: A strong background in zoology and junior standing. The lower marine invertebrates. Emphasis on morphology, distribution, and ecology of the phyla from Protozoa through Lophophorata.

484—**Marine Invertebrate Zoology II.** 6-6-12-**Su.** Prerequisite: BIO 483. The higher marine invertebrates. Emphasis on morphology, distribution, and ecology of the phyla from Mollusca through the Protochordates.

485—**Parasites of Marine Animals.** 6-6-12-**Su.** Prerequisite: Comsent of instructor. Emphasis on morphology, taxonomy, life histories, and host-parasite relationships.

488—**Introduction to Marine Zoology.** 6-6-12-**Su.** Prerequisite: 8 hours of biology including zoology. A general introduction to the marine environment with emphasis on local fauna.

489—**Marine Botany.** 6-6-12-**Su.** Prerequisite: 10 hours of biology including botany. A survey, based upon local examples, of the principal groups of marine algae.

BUSINESS EDUCATION (BED—105)

101—**Elementary Typewriting.** 3-4-0-**F,W,S.** For **beginners.*** Acquiring keyboard control, developing correct typewriting techniques, and applying this skill to problems.

102—**Intermediate Typewriting.**** 3-4-0-**Q**. A review of keyboard and manipulative controls, with emphasis on letter styles, manuscripts, and tabulated reports.

201—**Beginning Shorthand.** 3-4-3-**F,W,S**. For **beginners.*** Gregg theory with practice; emphasis on fluency of reading and writing; some dictation and transcription.

202—**Intermediate Shorthand.**** 3-4-3-**F,W,S**. Completion of theory of Gregg shorthand, with emphasis on dictation and transcription.

300—**Business Writing.** 3-4-0-**F,W,S**. Study and application of principles and techniques used in analyzing problems and writing effective business letters and memorandums.

305—**Dictation and Transcription.**** 3-4-3-**F,W,S**. Automatic review of shorthand theory, with emphasis on speed and mailable transcripts.

310—**Advanced Typewriting.**** 3-4-0-**F,W,S**. Emphasis on speed and accuracy in preparing stencils, business forms, legal documents, tables, manuscripts, and letters.

340—**Adding and Calculator Machine Operation.** 2-2-0-**Q**. Operation of rotary and printing calculators; full keyboard and ten-key adding machines.

352—**Filing Systems and Records Management.** 2-4-0-**Q**. Study of major filing systems; rules for alphabetizing; application of filing to specific types of businesses.

354—**Problems in Typewriting.** 2-4-0-**Q**. Techniques in skill building; speed and accuracy in typing a variety of office forms; emphasis on production work.

450—**Office Appliances.** 3-4-0-**Q**. Operation of calculators, adding and posting machines, transcribing machines, electric typewriters, mimeoscopes, and duplicating machines.

452—**Philosophy of Vocational Business Education.** 3-4-0-**W**. History; changing concepts, office systems, occupations, employment opportunities, procedures, and techniques.

453—**Coordination of Office Occupations Programs.** 3-4-0-**Su**. Problems in developing office occupations programs to meet the needs of employees and businesses.

460—**Office Management.** 3-4-0-**F,W,S**. Principles of management as applied to office work; office organization, supervision, layout, supplies, machines, personnel, forms, reports, and services.

471—**Advanced Dictation and Transcription.**** 3-4-3-**Q**. Emphasis on dictation and transcription using the vocabulary of different departments of businesses.

472—**Executive Secretarial Shorthand.**** 3-4-3-**Q**. The finishing course in shorthand dictation and transcription, with primary emphasis on mailable copy.

480—**Research and Report Writing.** 3-4-0-**S**. Concepts and methods of business research and style; problems encountered in researching and reporting business data in written reports.

485—**Office Practice and Procedures.** 3-4-0-**F,W,S**. A study of problems in secretarial work, along with the developing of personality traits and good human relations.

*A student with one year of typewriting in high school cannot get credit for BED 101, and a student with one year of shorthand in high school

cannot get credit for BED 201. A student who has had more work than this in either or both fields should consult with the chairman of the Department of Business Education about the appropriate beginning courses for his program.
**PREREQUISITE for all typewriting and shorthand courses—Grade of C or better, or equivalent, in the preceding course.

CHEMISTRY (CHE—320)

100—**Introductory Chemistry.** 3-4-0-**F,Su**. Prerequisite: High school algebra or MAT 101 which may be taken concurrently. A preparatory course (for CHE 101) in chemical fundamentals; does not satisfy core requirements in College of Science and Technology or Schools of Nursing and Home Economics.

101—**General Chemistry I.** 3-3-3-**F,W,Su**. Prerequisites: High school chemistry or CHE 100, and high school algebra or MAT 101 which may be taken concurrently. Atomic and molecular structure and bonding, stoichiometry and the mole concept, physical properties of molecular substances and aqueous solutions.

102—**General Chemistry II.** 3-3-3-**W,S,Su**. Prerequisite: CHE 101. Basic principles of thermochemistry, chemical equilibrium, chemical dynamics, and types of solutions including gaseous, liquid, and solid.

103—**General Chemistry III.** 3-3-3-**S,Su**. Prerequisite: CHE 102. Acid-base reactions, oxidation-reduction reactions, introduction to nuclear chemistry and selected organic and biochemical topics.

251—**Elementary Organic Chemistry I.** 3-3-3-**F,W,Su**. Prerequisite: CHE 102. A short survey course in organic chemistry designed for students majoring in nursing and in some areas of home economics.

252—**Elementary Organic Chemistry II.** 3-3-3-**W,S,Su**. Prerequisite: CHE 251. A continuation of CHE 251. CHE 251 and 252 should not be considered as a substitute for CHE 351, 352, 353.

300—**Chemical Safety.** 2-1-3-**X**. Prerequisite: CHE 321 or 353 or permission of the instructor. A study of the hazards of various commonly used chemicals. Instruction in the safe use, storage, and disposal of dangerous chemicals.

311—**Analytical Chemistry I.** 4-2-6-**F,Su**. Prerequisite: CHE 103. Theory and practice of chemical equilibrium. Quantitative, gravimetric, volumetric, separation, and introductory instrumental analysis.

312—**Analytical Chemistry II.** 4-2-6-**W,Su**. Prerequisite: CHE 311. A continuation of CHE 311.

321—**Elementary Biochemistry.** 3-3-3-**W,S,Su**. Prerequisite: CHE 252. A one quarter survey course in biochemistry.

322—**Clinical Biochemistry.** 3-4-0-**S**. Prerequisite: CHE 321. A course designed to acquaint the student with the biochemical basis for clinical diagnosis.

351—**Organic Chemistry.** 3-3-3-**F,W,Su**. Prerequisite: CHE 103. Introduction to the chemistry of aliphatic and aromatic compounds, including nomenclature, reaction mechanisms, and stereochemistry.

352—**Organic Chemistry.** 3-3-3-**W,S,Su**. Prerequisite: CHE 351. Study of the basic monofunctional organic compounds (halides, alcohols, acids, aldehydes, and ketones) and their spectroscopic analysis.

353—**Organic Chemistry.** 4-3-6-**S,Su**. Prerequisite: CHE 352. Continued study of basic monofunctional (amines, phenols) and several polyfunctional (carbohydrates, amino acids and proteins) compounds.

361—**Physical Chemistry for Pre-Medical and Biological Sciences Students.** 4-3-6-**X**. Prerequisites: MAT 103 and CHE 312. Gas laws, kinetics, equilibrium and free energy, electrochemistry, pH, buffers, and membrane phenomena.

362—**Physical Chemistry for Pre-Medical and Biological Sciences Students.** 4-3-6-**X**. Prerequisite: 361. A continuation of 361. CHE 361 and 362 are not to be taken by chemistry majors.

400—**Chemical Literature.** 1-1-0-**X**. Prerequisite: CHE 353 and 312. The selection and use of the reference materials of chemistry: periodicals, journals, texts, patents, and other sources of information.

401—**Glass Blowing.** 2-1-3-**X**. A course covering simple operations of glass blowing to enable the student to make common apparatus.

402—**Chemistry of the Atmosphere.** 4-4-3-**X**. Prerequisite: CHE 312. Radiocarbon cycle, atmospheric photochemistry, weather patterns, greenhouse effect, combustion pollutants, health hazards, etc.

403—**Industrial Chemistry.** 3-4-0-**X**. Prerequisite: Permission of the instructor. A study of the more important processes used in industry. Invited industrial representatives and plant visits keep the topic current and useful.

411—**Instrumental Analysis.** 4-2-6-**S**. Prerequisite: CHE 353 and 312. Theory and practice of analytical instrumentation; absorption spectroscopy, chromatography, mass spectroscopy, and magnetic resonance.

421—**Introduction to Biochemistry.** 4-4-3-**F,Su**. Prerequisite: 353. The properties of amino acids, proteins, carbohydrates, lipids, and nucleic acids; actions of enzymes and protein synthesis.

422—**Intermediary Metabolism.** 4-4-3-**W,Su**. Prerequisite: 421. The study of the major metabolic pathways with emphasis on energy considerations and inter-relationships of the pathways.

431—**Inorganic Chemistry.** 3-4-0-**F**. Prerequisite: CHE 353 and 312. Models, concepts, bonding and periodic trends in inorganic chemistry.

432—**Descriptive Inorganic Chemistry.** 3-3-3-**W**. Prerequisite: CHE 431. Reactions and synthesis of inorganic compounds and complexes.

441—**Application of Nuclear Techniques.** 4-4-3-**X**. Prerequisite: Permission of the instructor. Applied biological, chemical, environmental, etc., problems. Topics: radioisotope handling, radiation detection, shielding, tracer techniques, etc.

451—**Qualitative Organic Analysis I.** 2-1-3-**W**. Prerequisite: CHE 353. The systematic identification of pure organic chemicals.

452—**Qualitative Organic Analysis II.** 2-1-3-**S**. Prerequisite: CHE 451. A study of the analysis of mixtures, with emphasis on chromatographic separation techniques and spectroscopic methods of analysis.

461—**Physical Chemistry.** 3-3-3-**F**. Prerequisites: MAT 277 and CHE 353. Chemical thermodynamics, kinetics, surface phenomena, quantum chemistry, symmetry, spectroscopy, and molecular structure.

462—**Physical Chemistry.** 3-3-3-**W**. Prerequisite: CHE 461. A continuation of CHE 461.

463—**Physical Chemistry.** 3-3-3-**S**. Prerequisite: CHE 462. A continuation of CHE 462.

496—**Special Projects I.** 1-3 hrs. arr. Prerequisite: Permission of faculty. A course in library and laboratory research on a problem chosen in consultation with the adviser.

CHILD DEVELOPMENT (CD—805)

050 or 359—**Preschool Teachers' Workshop I, II, III.** 1 hr. arr. **X.** For teachers, administrators, and educational leaders of preschool centers with emphasis on administration, curriculum, and other appropriate subjects.

350—**Child Development.** 3-3-3-**Q.** Designed to create interest in preschool children and to foster understanding of their development and behavior patterns.

351—**Home and Preschool Relationships.** 3-4-0-**W.** Study of relationships of parents and children with emphasis on principles, procedures, and methods of working with parents in groups or individually.

450—**Administration of Preschool Programs.** 3-3-3-**S.** A course in the organizational structure and management of various preschool programs.

451—**Infant Development.** 3-3-3-**S.** Emphasis will be given to the development and behavior of the infant.

452—**Child Development Methods and Materials.** 3-3-3-**W.** Provisions are made to evaluate and select materials for use in developing teaching techniques and planning play activities for children.

453—**Creative Activities for the Preschool Child.** 3-3-3-**F.** A study of creative activities (literature, art, music, nature study, etc.) for preschool children with practical experiences provided.

454—**Participation Experiences in the Infant Development Center.** 3 hrs. arr. **Q.** Prerequisite: CD 450. Directed participation as an assistant in the Infant Development Center for one quarter.

455—**Supervised Participation.** 4 hrs. arr. **Q.** Prerequisite: CD 450. Directed participation as an assistant in the Nursery School for one quarter.

459—**Symposium in Child Development.** 2 hrs. arr. **X.** Prerequisite: Consent of instructor. A study of theories and recent research used in preschool education.

492—**Special Problems in Child Development.** 1-4 hrs. arr. **X.** Prerequisites: CD 350 and consent of instructor.

CLOTHING AND TEXTILES (CT—810)

131—**Fundamentals of Clothing.** 3-1-4-**Q.** Understanding and applying the fundamental principles of garment construction to a specific garment.

221—**Fashion Modeling and Fashion Show Production.** 3-4-0-**S.** Basic principles of fashion modeling and fashion show production.

321—**New York Study Tour.** 2 hrs. arr. **S.** Planned tour to New York with emphasis on clothing, textiles, fashion, and interiors.

328—**Fashion Display.** 2-1-2-**F.** Study available resources of display materials and laboratory experiences in fashion display.

330—**Consumer Textiles.** 3-4-0-**F,W.** Study of textile fibers, fabrics, finishes, and legislation as related to serviceability.

331—**Garment Selection and Wardrobe Planning.** 3-4-0-**X.** Selection of garments through comparative buying techniques on basis of need, cost, and serviceability.

332—**Art Related to the Home and Dress.** 3-2-2-**F,S.** Experiences in perceiving visual design elements as they relate to the home and dress.

333—**Family Clothing.** 3-1-4-**Q**. Interpreting and solving problems associated with clothing a family, with laboratory emphasis on advanced clothing construction and pattern alteration.

334—**Textiles.** 3-4-0-**X**. A study of textile fabrics and finishes, trade practices and legislation as they relate to consumer problems.

335—**Clothes and Cultures.** 3-4-0-**F**. Prerequisite: Junior or senior status. Cultural and economic factors concurrent to the adoption and abandonment of dress from ancient times to the present.

336—**Tailoring Men's Wear.** 3-1-4-**S**. Basic principles and techniques of tailoring applicable to the construction of men's suits.

430—**Textile Product Evaluation.** 3-1-4-**S**. Prerequisite: CT 330 or CT 334 or approval of instructor. Testing textile fabrics by standard ASTM and AATCC methods; interpreting and evaluating results for better consumer practices.

431—**Tailoring.** 3-1-4-**Q**. Principles and techniques of tailoring applied to a suit or coat.

432—**Textile Economics.** 3-4-0-**W**. A study of problems which affect the consumer in the production, distribution, and consumption of textiles and clothing.

433—**Flat Pattern Design.** 3-1-4-**S**. Basic principles of flat pattern technique and the application of said technique to creation dress design.

434—**History of Decorative Textiles.** 3-4-0-**Su**. Historical view of surface and construction design techniques in textiles.

435—**Fashion Fundamentals.** 3-4-0-**W**. Understanding fashion through a study of the interrelationships of the raw materials, producers, retailers, and consumers of fashion.

437—**Apparel Design.** 3-2-2-**W**. Fashion from the designer's viewpoint-terminology, methods, and influences. Experiences in designing.

439—**Retail Management Internship I, II.** 4-0-0-**X**. Prerequisites: MKT 320, 333, 342. Understanding the operation and management of retail activities through a training-work program in a cooperating department store. Supervision by the adviser with whom arrangements are made and for whom progress and evaluation reports are prepared.

492—**Special Problems.** 3-0-0-**Q**. A directed individual study planned and approved by the chairman of the department.

COMMUNICATION (COM—208)

200—**Survey of Mass Communication.** 3-4-0-**Q**.

407—**Theories of Mass Communication.** 3-4-0-**W**. Prerequisite: Consent of instructor or COM 200.

410—**Business and Industrial Communication.** 3-4-0-**F**. Prerequisite: Consent of instructor.

417—**Practicum in Major Field.** 3-4-0-**Q**. May be repeated twice with change of content.

431—**Advertising Management and Sales.** 3-4-0-**F**. Prerequisites: RTF 371, RTF 375, and consent of instructor.

492—**Special Problems.** 1-3 hrs. arr. **X**.

COMPUTER SCIENCE (CSS—330)

100—**Introduction to Computing.** 3-4-0-**Q**. Prerequisite: Permission of instructor. Computer concepts, forms of I/O, system design and analysis, recording data, and programming languages. This course may not apply to any major within this department.

211—**Statistical Methods I.** 3-4-0-**Q**. Prerequisite: MAT 100 or permission of instructor. Sampling and sampling distributions: normal and binomial, measures of central tendency and dispersion.

212—**Statistical Methods II.** 3-4-0-**Q**. Prerequisite: CSS 200. Hypothesis testing, correlation, regression analysis, analysis of variance and covariance.

240—**Introduction to Programming Laboratory.** 3-4-1-**Q**. Prerequisite: MAT 100 or equivalent. Introduction to the FORTRAN language.

320—**Introduction to Linear Programming Techniques.** 3-4-0-**F,S,Su**. Prerequisite: MAT 171. Vectors and Euclidean spaces, linear transformations, convex sets and hyperplanes, theory of simplex method, the transportation problem.

323—**Applied Techniques in Statistics and Engineering.** 3-4-0-**F**. Prerequisite: MAT 379 or equivalent. Laplace transforms, Fourier series, use of LISA and other continuous systems modeling programs.

324—**Applied Techniques in Statistics and Engineering.** 3-4-0-**W**. Prerequisite: MAT 378. A continuation of CSS 323.

340—**Advanced Fortran Programming.** 3-4-0-**Q**. Prerequisite: CSS 240 or equivalent. Advanced format concepts, subroutines, tape and disk I/O, Fortran generated languages.

341—**Digital Computer Programming.** 3-4-0-**F,S**. Prerequisite: CSS 340. Assembler language coding: registers, instruction formats, decimal and floating point arithmetic, I/O coding, system capabilities, program states.

342—**Introduction to COBOL Programming.** 3-4-0-**W,S**. Prerequisite: CSS 240. Programming of problems using the COBOL language.

370—**Digital Systems I.** 4-4-2-**F**. Prerequisites: CSS 341, PHY 327, and PHY 328. Design, analysis and maintenance of computer systems.

371—**Digital Systems II.** 4-4-2-**W**. Prerequisite: CSS 370. A continuation of CSS 370.

372—**Digital Systems III.** 4-4-2-**S**. Prerequisite: CSS 371. A continuation of CSS 371.

415—**Methods of Mathematical Statistics I.** 3-4-0-**W,S**. Prerequisite: Permission of instructor. Hypothesis testing, power of tests, analysis of variance, orthogonal contrasts, fixed, random and mixed models.

416—**Methods of Mathematical Statistics II.** 3-4-0-**S,Su**. Prerequisite: CSS 415. Simple and multiple linear regression, polynomial regression, multi-way analysis of variance, randomized blocks and nested factorials.

417—**Experimental Design.** 3-4-0-**Su**. Prerequisite: CSS 416. Factorials, randomized blocks, Latin squares and split-plot, fractional factorials and confounding response surface models.

418—**Sampling Methods.** 3-4-0-**X** Prerequisite: CSS 415. The planning, execution, and evaluation of sample surveys. Simple random sampling, stratified random sampling, cluster sampling.

420—**Numerical Analysis I.** 3-4-0-**F**. Prerequisites: MAT 378 and CSS 340. Numerical solution to transcendental equations, systems of linear and non-linear equations, Milne's method, Runge-Kutta method.

421—**Numerical Analysis II.** 3-4-0-**S**. Prerequisite: MAT 378. Modeling of continuous and discrete systems, approximation to computer based functions, Pade' approximation.

435—**Theoretical Statistics I.** 3-4-0-**F.** Prerequisite: MAT 379. Probability, moments of distributions, multivariate and conditional distributions.

436—**Theoretical Statistics II.** 3-4-0-**W.** Prerequisite: CSS 435. Properties of estimators, samples and sampling distributions, simulation techniques.

440—**Educational Statistics.** 3-4-0-**F,S.** Prerequisite: Permission of instructor. Elementary probability, conditional probability, binomial experiments, curve fitting, least squares techniques, correlation and regression models.

450—**Systems Programming.** 4-5-0-**F.** Prerequisite: Permission of instructor. Research projects in systems problems. Research will involve current software or hardware topics.

451—**Systems Programming.** 4-5-0-**W.** Prerequisite: Permission of instructor. A continuation of CSS 450.

452—**Systems Programming.** 4-5-0-**S.** Prerequisite: Permission of instructor. A continuation of CSS 451.

460—**Computer Software I.** 3-4-0-**W,Su.** Prerequisites: CSS 340 and 341. A study of assemblers and loaders.

461—**Computer Software II.** 3-4-0-**F,S.** Prerequisite: CSS 460. An in-depth study of compilers and compiler writing techniques.

462—**Computer Software III.** 3-4-0-**F,S.** Prerequisite: CSS 461. An in-depth study of operating systems (batch, time-sharing and real time systems).

470—**Boolean Algebra and Switching Circuits.** 3-4-0-**F,S.** Prerequisite: Permission of instructor. Logic and Boolean algebra for description and analysis of switching circuits, basic sequential circuits.

471—**Computer Design.** 3-4-0-**W,Su.** Prerequisite: CSS 470. A study of control units, arithmetic units, memories and microprogramming concepts.

476—**Introduction to Analog Computers.** 3-4-1-**W.** Prerequisite: MAT 405 or CSS 323. Design and testing of basic analog circuits.

477—**Advanced Analog and Hybrid Systems.** 3-4-0-**X.** Prerequisite: CSS 476. Use of the analog computer to solve engineering problems, process control.

480—**Data Processing and File Management.** 4-5-0-**S.** Prerequisites: CSS 341 and 342. Organization and maintenance of sequential, direct access and index sequential files. Design of on-line file systems.

COUNSELING AND GUIDANCE (CGE—140)

101—**Foundations of Personal Development.** 1-1-0-**Q.** An introduction to the principles of human development. Open to freshmen and transfers only.

310—**Introduction to Social and Rehabilitation Services.** 3-4-0-**Q.** An orientation via a review of relevant history, legal mandates, philosophy, objectives, and applied services. Offered only with CGE 360.

311—**Assessment, Evaluation, and Prognosis in the Social and Rehabilitation Services.** 3-4-0-**F,S.** Introduction to basic assessment and evaluation techniques and application of these in rehabilitation settings.

312—**Methods and Techniques of Social and Rehabilitation Services.** 3-4-0-**W,Su.** Emphasizes human relations skills and principles undergirding the practical application of various helping techniques. Offered only with CGE 361.

360—**Social and Rehabilitation Services Laboratory I.** 3-0-4-**W,Su.** Includes selected readings, discussion groups and directed field visits. Offered only with CGE 310.

361—**Social and Rehabilitation Services Laboratory II.** 3-0-4-**W,Su.** Application of interview and group techniques through personal interaction experiences. Offered only with CGE 312.

413—**Vocational Development and the World of Work.** 3-4-0-**W,Su.** An introduction to the study of vocational development and occupations.

422—**Curriculum Development for Career Education.** 3-4-0-**S,X.** Introduction to principles of curriculum adaptation for school-based programs of career education.

423—**Methods and Techniques of Group Guidance.** 3-4-0-**S,X.** Introduction to the fundamentals of developmental group work.

430—**Principles and Processes of Case Management.** 3-4-0-**W,Su.** This course focuses on the coordination of specific functional tasks associated with habilitation/rehabilitation services.

431—**Medical and Personal Adjustment Aspects of Helping Processes.** 3-4-0-**F,S.** An introduction to the chronically disabling conditions both from the viewpoint of treatment processes and individual adjustment.

432—**Community Resources for Guidance.** 3-2-4-**F,S.** A study of the nature and development of agency resources within the community, along with their purposes and functions.

462-463—**Social and Rehabilitation Services Field Practicum I, II.** 3-0-12-**Q** or 6-0-24-**Q.** To be taken with or following CGE 430 as an individualized internship practicum within an agency or facility.

CRIMINAL JUSTICE (CJ—281)

200—**Introduction to Criminal Justice.** 3-4-0-**Q.** An introduction to the fundamental concepts of the criminal justice system from investigation through probation and parole.

201—**Police Administration.** 3-4-0-**W.** An introduction to the fundamentals of police administration with emphasis on basic organization and management of police functions.

301—**Police Operations.** 3-4-0-**S.** A study of the functions and relationships of line elements of the law enforcement agency with emphasis on patrol.

303—**Criminal Law I.** 3-4-0-**F,W,S.** A survey of substantive criminal law with emphasis on the most common criminal offenses.

304—**Fundamentals of Criminal Investigation.** 3-4-0-**F,S.** An overview of the crime solving process with emphasis on methodology, **corpus delecti,** and evidence.

305—**Traffic Law.** 3-4-0-**F,S.** An introduction to traffic law and methods of enforcement.

308—**Crime Prevention.** 3-4-0-**W.** A study of methods of protecting life and property in the community and in industry.

401—**Criminal Justice Practicum.** 3-0-0-**Su.** Field work with a criminal justice agency. Majors only.

402—**Criminal Justice Practicum.** 3-0-0-**Su.** Field work with a criminal justice agency. Majors only.

403—**Criminal Law II.** 3-4-0-**F,W.** A survey of the procedural rules applicable to the judicial enforcement of substantive criminal law. Criminal Law I not required.

404—**Evidence, Search, and Seizure.** 3-4-0-**X**. An examination of the laws of evidence and the procedures for obtaining it.

406—**Administration of Criminal Corrections.** 3-4-0-**X**. An in-depth study of the administration of the correctional system. Includes management, the incarceration process, probation and parole.

407—**Juvenile Justice System.** 3-4-0-**W,Su**. A study of the law concerning investigation of juvenile offenders, disposition of offenders, and juvenile courts.

408—**Seminar in Criminal Justice.** 3-4-0-**F,S**. An interdisciplinary seminar covering significant problem areas in the criminal justice system.

409—**Law of Criminal Corrections.** 3-4-0-**X**. A study of the newly emerging rights of individuals at detention, arrest, and incarceration.

492—**Special Problems.** 1-3 hrs. arr. **Q**.

ECONOMICS (ECO—610)

100—**Introduction to Economics.** 3-4-0-**Q**. Not to be counted toward major, minor, or meeting the core requirements of the School of Business Administration.

255—**Principles of Economics I.** 3-4-0-**Q**. An examination of the basic institutions of American capitalism and the determination of the level of national income, employment, prices, and growth.

256—**Principles of Economics II.** 3-4-0-**Q**. Economics of the firm with emphasis on product and resource market operations under varying degrees of competition.

301—**Elementary Statistics I.** 3-4-0-**Q**. Prerequisite: MAT 101 or 112. Basic concepts; central tendency and dispersion; probability; poisson, binomial distributions.

302—**Elementary Statistics II.** 3-4-0-**Q**. Prerequisite: ECO 301. Decision making, classical and bayesian; regression and correlation; index numbers and time series analysis.

310—**Economic History of the United States.** 3-4-0-**W**. A study of the economic forces that have influenced the development of the United States from its European origins to the present.

330—**Money and Banking.** 3-4-0-**Q**. Prerequisites: ECO 255 and 256. An intermediate study of the nature and functions of money, the banking system of the United States, and monetary theory.

335—**Economics of the Firm.** 3-4-0-**F**. Prerequisites: ECO 255 and 256. Not for economics majors. Credit for graduation will not be given for both ECO 335 and 240. An intermediate study of the application of economic theory to managerial decision-making.

340—**Price Theory.** 3-4-0-**F,S**. Prerequisite: ECO 256. An intermediate study of the determination of prices in factor and final product markets.

345—**Income Theory.** 3-4-0-**W,S**. Prerequisite: ECO 255. An intermediate study of the determination of income and employment.

375—**Quantitative Methods for Business.** 3-4-0-**F,S**. Prerequisite: MAT 101. An introduction to those quantitative methods which have been found most useful in economics and business enterprise.

401—**Public Finance.** 3-4-0-**W,Su**. Prerequisites: ECO 255 and 256. A study of federal and state spending and fund raising policies within the context of the social goals of the society.

413—**The Economy of Latin America.** 3-4-0-**W.** Prerequisites: ECO 255 and 256 or permission of instructor. Analysis of crucial economic issues in Latin America including: population explosion, the agricultural revolution, urbanization and industrialization, and foreign trade.

422—**Economics of Public Utilities.** 3-4-0-**F.** Prerequisite: ECO 256. Traditional public utility regulation—institutions and theory; the political economy of regulation and cost-benefit analysis of regulation.

424—**Economics of Urban Areas.** 3-4-0-**S.** Prerequisites: ECO 255 and 256. A study of current problems of the cities—race, poverty, pollution, unemployment, crime, and government finance.

435—**International Trade Theory.** 3-4-0-**F.** Prerequisites: ECO 255 and 256. A study of the historical development of international trade theory, the importance of international trade, and the mechanism of international payments.

440—**Economic Development.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. Emphasis on the economic tools for analyzing economic development with particular attention to regional growth and change.

445—**Business Forecasting.** 3-4-0-**W.** Prerequisite: ECO 302. An examination of the causes and methods of prevention of economic fluctuations with emphasis on the techniques of forecasting economic variables.

465—**Economics of Labor.** 3-4-0-**Q.** A study of the labor market with special reference to the institutional setting, wage determination, and employment problems in an industrial economy.

470—**Comparative Economic Systems.** 3-4-0-**F,S.** A course designed to acquaint the student with the origins, development, and characteristics of facism, socialism, and capitalism.

480—**Environmental Economics.** 3-4-0-**W.** Prerequisites: ECO 255, 256, or consent of instructor. A survey of economic concepts relevant to decision making with reference to the management of natural resources heretofore considered to be "free" in nature.

492—**Contemporary Economic Problems I.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. A study of the economic problems of monopoly, international trade, and income distribution.

494—**Contemporary Economic Problems II.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. A study of the economic problems of the business cycle, inflation, growth, and size and influence of the public economy.

EDUCATIONAL FOUNDATIONS (CIF—125)

300—**Public Education in the United States.** 3-4-0-**Q.** An orientation including background, purposes, organization, trends, issues and evolution of teaching as a profession. To be taken the last quarter of the sophomore year.

334—**Improvement of Study.** 2-0-4-**F,W,S.** Prerequisite: Permission of the instructor. An analysis of effective study techniques. Useful for college students who wish to improve their own reading and study habits.

336—**Principles of Guidance.** 3-4-0-**Q.** An introductory course dealing with the fundamental philosophy, methods, and organization of guidance services in the public schools.

416—**Audiovisual Education.** 3-4-0-**Q.** A general course for teachers with emphasis upon sound and visual classroom teaching aids.

421—**Seminar for Teaching Interns.** 9-0-0-**X.** As needed. Open to intern-teachers only.

430—**Teaching in the Space Age.** 3-4-0-**W.** A study of the influence of aerospace developments on society. Provides teachers with the needed background for meaningful classroom experiences.

469—**Tests and Measurements.** 3-4-0-**Q.** Prerequisites: EPY 370, 372, or 374, and senior standing. Considers evaluative practices in elementary and secondary schools, informal tests, standard tests, and an introduction to elementary statistical procedures.

490—**Classroom Use of Instructional Television.** 3-4-0-**Su.** Provides a comprehensive experience in the planning, organizing, presentation and use of instructional television. Emphasis on Mississippi's state program.

EDUCATIONAL PSYCHOLOGY (EPY—180)

370—**Human Growth and Development, Part I: Child** 3-4-0-**Q.** Prerequisite: PSY 110. Study of the child through the elementary school years, emphasizing principles and problems of development.

371—**Psychology of Preadolescence and Early Adolescence.** 3-4-0-**Q.** The study of human growth and development during later elementary and junior high school years.

372—**Human Growth and Development, Part II: Adolescent.** 3-4-0-**Q.** Prerequisite: PSY 110. A course dealing with development of the individual through the adolescent years.

374—**Educational Psychology.** 3-4-0-**Q.** Prerequisite: PSY 110. Application of psychological methods, facts, and principles to education.

385—**Applied Behavior Analysis.** 1-3 hrs. arr. **Q.** Prerequisites: PSY 110, EPY 374, one of EPY 370, EPY 371, or EPY 372 and permission of the instructor. Application of the principles of applied behavior analysis to problems involving human behavior change in an educational context.

470—**Developmental and Educational Psychology for Teaching Interns.** Available to internship students only, arranged through the Office of Student Teaching.

476—**Learning in Adult Education.** 3-4-0-**X.** A study of learning in adulthood, and related to a range of educational programs.

482—**Contemporary Problems in Educational Psychology.** 3-4-0-**X.** May be taken up to nine hours with change of content. Prerequisites: PSY 110, and permission of the instructor. A review of theory and research on selected, contemporary topics in educational psychology.

ELEMENTARY EDUCATION (CIE—115)

301—**Methods and Materials in Arithmetic.** 3-4-0-**Q.** A course which utilizes modern strategies of psychology and methodology in elementary school mathematics on exploratory, structural, and mastery levels of learning.

305—**Social Studies in the Elementary Grades.** 3-4-0-**Q.** Emphasis is on the social science interdisciplinary approach for content and methodology, problem solving, unit teaching, and thinking.

306—**Language Arts in the Elementary School.** 3-4-0-**Q.** Emphasizes the methods and materials for teaching handwriting, creative writing, listening, speaking, and grammar in grades 1 through 8.

309—**Developing Skills in Reading.** 3-4-0-**Q**. Develops performances required in instructional and recreational reading; and methods and materials used to teach these skills in grades 1 through 8.

311—**Kindergarten and Primary Reading Instruction.** 3-4-0-**Q**. Prerequisites: CIE 306 and 309. Explores primary reading as a developmental process through units on grouping, objectives, media, diagnosis and prescription, and selected approaches.

312—**Middle School Reading Instruction.** 3-4-0-**Q**. Prerequisites: CIE 306 and 309. Explores reading by developing topics on patterns, objectives, materials, approaches, content area reading, and diagnosis and prescription for grades 4 through 8.

317—**Methods and Materials in Children's Literature.** 3-4-0-**Q**. An introduction to children's primary literature, in all forms, and a study of ways in which it is intregrated into the curriculum for enrichment.

318—**Literature for the Middle School.** 3-4-0-**X**. A study of literature appropriate for use in grades 4 through 8 stressing effective use of literature in the school program.

330—**Readiness Programs for Young Children.** 3-4-0-**W,SU**. A course dealing with varied phases of comprehensive readiness programs for young children.

343—**Methods and Materials in Elementary Education.** 3-4-0-**Q**. Offered concurrently with student teaching (CIE 482), this general methods course examines materials and methods of teaching pupils in grades four through eight.

403—**Kindergarten—Primary Education.** 3-4-0-**Q**. A practicum designed to give teaching experiences in understanding the social, emotional, and cognitive growth and development of children.

412—**Diagnosis and Remediation of Reading Disability for the Classroom Teacher.** 3-4-0-**Q**. Prerequisites: CIE 306, 309 and 311 or 312. Provides relevant practicum experiences in evaluation and gives extended opportunities in child tutoring appropriate to grades 2-8.

414—**Creative Dramatics for Children.** 3-4-0-**X**. Prerequisite: Consent of the instructor. Fundamentals of organizing and developing creative dramatics programs for elementary school age children are stressed in this course.

415—**Fundamentals of Children's Theatre.** 3-4-0-**X**. Prerequisite: Consent of the instructor. Instruction is focused on the methods and techniques of producing plays for elementary school age pupils.

425—**Methods and Materials in Early Childhood Education.** 3-4-0-**Q**. Offered concurrently with student teaching (CIE 480), this general methods course examines materials and methods of teaching children in kindergarten through grade 3.

427—**Evaluation in Early Childhood Education.** 3-4-0-**X**. Emphasis is placed on evaluative techniques and principles relative to the physical, intellectual, emotional, and social development of young children.

480—**Student Teaching in Lower Elementary.** 9-0-0-**F,W,S**. Prerequisites: CIF 300, CIE 301, 305, 306, 309, 311, EPY 370, 374. Taken together with CIE 425, students who student teach in kindergarten through grade 3 will register for this course.

482—**Student Teaching in Upper Elementary.** 9-0-0-**F,W,S**. Prerequisites: CIF 300, CIE 301, 305, 306, 309, 312, EPY 370, 374. Taken together with CIE 343, students who student teach in grades 4 through 8 will register for this course.

489—**Seminar in Elementary Student Teaching.** 6-0-0-**Su.** Prerequisite: Permission of instructor. Designed to meet the student teaching requirement for noncertified experienced teachers, this course deals with classroom management, programs of instruction, and student role in the educational environment.

490—**Workshop in Aviation Education.** 3-0-0-**Su.** Designed to familiarize teachers and administrators with the role that aviation and space exploration play in developing the school curriculum. May be taken twice for a total of six hours.

491—**The Reading Conference.** 1-0-0-**Su.** An intensive three-day summer quarter program consisting of lectures, group discussion, and demonstration lessons. May be taken three times.

492—**Internship in Kindergarten and Primary Education.** 9-0-0-**X.** Prerequisite: Permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

493—**Internship in the Middle School.** 9-0-0-**X.** Prerequisite: Permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

496—**Projects in Elementary Education I, II, III.** 3-0-0-**X.** Designed for school systems planning local projects of curriculum revision and course of study construction.

ENGLISH (ENG—224)

100—**Fundamentals.** 3-4-0-**Q.** (May not count toward a departmental major or minor.)

101—**Language.** 3-4-0-**Q.** Studies in the nature of language and practice in its use.

102—**Literature.** 3-4-0-**Q.** Studies in the nature and function of imaginative literature.

200—**Drama.** 3-4-0-**Q.**

201—**Fiction.** 3-4-0-**Q.**

202—**Poetry.** 3-4-0-**Q.**

321—**Introductory Short Fiction Writing.** 3-0-0-**F,S;Su,** 1975.

322—**Introductory Poetry Writing.** 3-0-0-**W;Su,** 1976.

332—**Advanced Expository Prose.** 3-0-0-**Q.**

340—**Analysis of Literature.** 3-4-0-**Q.**

350—**Survey British Literature I.** 3-4-0-**W;Su,** 1975.

351—**Survey British Literature II.** 3-4-0-**F,S;Su,** 1976.

370—**Survey American Literature I.** 3-4-0-**F,W,S;Su,** 1975.

371—**Survey American Literature II.** 3-4-0-**F,W,S;Su,** 1976.

372—**Afro-American Literature.** 3-4-0-**W.**

400—**Introduction to Linguistics.** 3-4-0-**F.**

401—**Advanced Grammar.** 3-4-0-**Q.**

402—**English Syntax.** 3-4-0-**W; Su,** 1975.

406—**History of the English Language.** 3-4-0-**W;Su,** 1976.

409—**Studies in Linguistics.** 3-4-0-**S.**

410—**Readings in World Literature I.** 3-4-0-**F.**

411—**Readings in World Literature II.** 3-4-0-**W.**

413—**The Modern European Novel.** 3-4-0-**W.**

417—**Modern Drama.** 3-4-0-S.
419—**Studies in Comparative Literature.** 3-4-0-Su.
421—**Short Story Writing.** 3-0-0-W;Su, 1976.
422—**Poetry Writing.** 3-0-0-F,S;Su, 1975.
424—**Traditions and Forms.** 3-4-0-F.
451—**Chaucer.** 3-4-0-S.
452—**Medieval British Literature.** 3-4-0-F.
454—**Shakespeare's Comedies and Tragicomedies.** 3-4-0-F,W;Su, 1976.
455—**Shakespeare's Histories and Tragedies.** 3-4-0-F,S;Su, 1975.
456—**Sixteenth-Century English Literature.** 3-4-0-F.
458—**Seventeenth-Century Prose and Poetry.** 3-4-0-W.
459—**Milton.** 3-4-0-W.
461—**Major Writers of Eighteenth Century.** 3-4-0-S.
463—**The British Novel.** 3-4-0-W;Su, 1976.
465—**Nineteenth-Century British Literature: Romantic.** 3-4-0-F.
466—**Nineteenth-Century British Literature: Victorian.** 3-4-0-S.
467—**Twentieth Century British Literature.** 3-4-0-W;Su, 1975.
468—**Modern British Poetry.** 3-4-0-W.
469—**Studies in British Literature.** 3-4-0-F,S.
470—**The American Literary Renaissance, 1820-1870.** 3-4-0-F;Su, 1975.
471—**The Rise of Realism in American Literature, 1870-1920.** 3-4-0-S.
472—**American Drama.** 3-4-0-S.
477—**The American Novel, 1920-1960.** 3-4-0-W;Su, 1976.
478—**Modern American Poetry.** 3-4-0-F;Su, 1975.
485—**Literature of the South.** 3-4-0-W;Su, 1976.
489—**Studies in American Literature.** 3-4-0-W,Su.
492—**Special Problems.** 1-3 hrs. arr. **X.**

ENVIRONMENTAL DESIGN (EVD—812)

140—**Environmental Design I.** 3-4-0-W. The principles of two-dimensional design applied to environmental settings and objects.

221—**Floral Design.** 3-1-4-F,Su. Fundamentals of floral arrangement and design.

331—**Textile Design: Fabric Surface Enrichment.** 3-1-4-S. Design on fabric of different compositions and textures with various media.

ENVIRONMENTAL TECHNOLOGY (ESC—335)

105—**Environmental Problems I, II.** 1-1-1-Q. Solution of current problems encountered in environmental improvement, environmental monitoring and environmental impact estimations.

205—**Environmental Problems III, IV.** 1-1-1-Q. Intermediate applied problems relating to environmental improvement, environmental monitoring, and environmental impact estimations.

301—**Man in his Environment.** 3-3-0-Q. Some of the physical, biological, social, political and economic problems associated with improving and maintaining environmental quality.

302—**Environmental Improvement Projects.** 3-1-6-**W,S,Su**. Prerequisite: ESC 301. Carrying an actual environmental improvement project from planning through the implementation stage.

305—**Environmental Problems V, VI.** 1-1-1-**Q**. Advanced problem solving associated with applied environmental projects peculiar to industrial and public works impact estimations.

401—**Pollution Detection.** 4-2-6-**F,Su**. Prerequisite: CHE 311 or permission of instructor. Field sampling and testing for water and air pollution emphasizing water pollution.

402—**Pollution Analysis.** 4-2-6-**W**. Prerequisite: CHE 311, ESC 401, or permission of instruction. A continuation of ESC 401 with emphasis on air pollution.

411—**Electronics for Scientists.** 4-1-7-**Q**. Practical electronics needed for maximum utilization of scientific instrumentation, automation, and logic circuits.

492—**Seminar in Environmental Science I, II, III.** 1-1-0-**Q**. Modern topics on pollution in the environment will be discussed.

FINANCE (FIN—615)

100—**Introduction to Business.** 3-4-0-**F,S**. An introductory course to practically all phases of the business world. Not open to juniors and seniors enrolled in the School of Business Administration.

290—**Business Data Processing.** 3-4-0-**Q**. Prerequisite: MAT 101. Application of internally stored digital computers to business problems. Programming of problems using the FORTRAN language.

295—**Fundamentals of Business Law.** 3-4-0-**Q**. An exposure to the background and present status of substantive and procedural law, the law of contracts, sales, and agency.

311—**Advanced Business Law.** 3-4-0-**Q**. Prerequisite: FIN 295. A continuation of FIN 295 with special emphasis on specific areas particularly related to business.

320—**Personal Finance.** 3-4-0-**W,Su**. A study of the financial problems people encounter in planning and managing their individual affairs.

325—**General Insurance.** 3-4-0-**F,W,S**. Nature of risk, its measurement, and the insurance mechanism as a device for handling risk with reference to the principal types of coverage.

330—**Real Estate Principles.** 3-4-0-**F,W,S**. An introduction to the field of real estate covering principles of law, valuation, management, financing, and brokerage of real estate.

350—**Bank Administration.** 3-4-0-**F,S**. Prerequisite: ECO 330. A comprehensive survey of the management of bank funds.

352—**Principles of Investments.** 3-4-0-**F,S**. Prerequisite: FIN 389. Introduction to security analysis and portfolio theory.

355—**Problems in Bank Administration.** 3-4-0-**W**. Prerequisite: FIN 350. In-depth analysis, mainly by the case method, of issues relating to bank problems.

375—**Managerial Communications.** 3-4-0-**Q**. Effective principles and practices of written communication and their functional translations in terms of audience evaluation.

389—**Business Finance.** 3-4-0-**Q**. Prerequisites: ACC 202 and ECO 256. Deals with financial management issues. Emphasis is placed on basic tools and methods of the financial managers.

400—**Computers in Decision Making.** 3-4-0-S. Prerequisites: FIN 290 and ECO 301. Principles of quantitative methods for business decision making under conditions of certainty, uncertainty, and risk.

415—**Government and Business.** 3-4-0-F,S. A study of the place of government in the business world with emphasis on controls, regulation, enforcement of competition and subsidies.

425—**Life Insurance.** 3-4-0-F,Su. Prerequisite: FIN 325. Types of policies and their uses; contract provisions; actuarial and legal aspects; settlement options and programming.

426—**Introduction to Actuarial Science.** 3-4-0-S. Prerequisite: FIN 425 or consent of instructor. Compound interest theory, its application, and basic actuarial techniques of premium and reserve determination for life insurance and annuities.

430—**Real Estate Law.** 3-4-0-S. Prerequisite: FIN 295. Designed to give the student a general background in the law of real property and the law of real estate brokerage.

432—**Real Estate Finance.** 3-4-0-W. Prerequisite: FIN 330. A study of the sources of real estate funds and the development of analytical techniques for investment decision making.

434—**Real Property Valuation.** 3-4-0-F. Prerequisite: FIN 330. Political, social, and economic forces which operate simultaneously to create value. Quantitative methods of estimating market value are developed.

436—**Property Management.** 3-4-0-S. Prerequisite: FIN 330. The economics of location, finance, marketing, and law as it relates to property management and amplified through case study.

440—**Transportation.** 3-4-0-W. The principles, practices and problems of transportation that prevail in the United States. Open only to juniors and seniors.

445—**Property and Liability Insurance.** 3-4-0-W,Su. Prerequisite: FIN 325. Fire insurance, consequential loss contracts, crime insurance, automobile coverages, general liability and workmen's compensation insurance.

450—**Health Insurance.** 3-4-0-S. Prerequisite: FIN 325. Disability risk with its economic consequences and the various health insurance coverages available to meet this risk.

462—**Security Analysis.** 3-4-0-W,Su. Prerequisite: FIN 352. A research course designed to examine the international, national, industrial, and corporate effect on expected micro-stock prices.

472—**International Business Finance.** 3-4-0-F,S. Prerequisite: FIN 389. Concerned with the short and long-run financial operations and specific cash and capital management problems of multinational business.

480—**Financial Management.** 3-4-0-Q. Prerequisite: FIN 389. High-level analysis of internal and external financial decision-making issues.

492—**Independent Study.** 3-0-0-X. Special research assignment designed to meet the needs of the particular student.

FOOD AND NUTRITION (FN—815)

163—**Food Study.** 3-3-3-F,W,S. Study of food science principles and their application in the preparation of foods and food products.

261—**Meal Planning and Table Service.** 3-3-3-F,W,S. Prerequisite: FN 163. Emphasis on management of time, energy, and money in selection and purchasing of foods, meal planning, preparation, and serving.

360—**Basic Nutrition.** 2-3-0-**W,S**. Nutritional needs of body and proper selection of foods emphasized.

362—**Nutrition.** 3-4-0-**Q**. Study of the body's need for foods, including the chemistry of digestion, metabolism, and nutritive requirements of body during life cycle.

363—**Child Nutrition.** 3-4-0-**X**. A study of nutritive requirements for young children.

364—**Teaching Food and Nutrition in the Elementary Grades.** 3-4-0-**X**. Course planned to give understanding of materials and methods for teaching nutrition at this level.

430—**Experimental Foods.** 3-2-4-**S**. Elementary research to determine factors affecting standard products.

460—**Advanced Nutrition.** 3-4-0-**F**. Prerequisite: FN 362. Study of current literature for new findings in field of nutrition.

461—**Diet in Disease.** 3-4-0-**W**. Prerequisite: FN 460. Study of diseases influenced by diet and dietary treatment of diseases.

462—**Food Preservation.** 3-3-3-**W,S**. Study of methods and techniques of preserving foods and its storage. Convenience foods studied.

470—**The School Lunch.** 3-3-3-**S**. Designed to give experience in menu planning, records, food buying, and preparing and serving food on quantity level.

492—**Research in Food and Nutrition Problems.** 1-3 hrs. arr. **X**. Prerequisite: Senior standing and permission of the instructor. Special problems course in food and nutrition.

FOOD SCIENCE AND TECHNOLOGY (FST—396)

101—**Introduction to Food Science.** 3-4-0-**X**. Basic concepts, scientific principles and methods employed in selection, preparation, processing, preservation, distribution, and use of foods.

310—**Food Science I.** 3-4-0-**X**. Physical, biochemical, and microbiological properties of important classes of food products as they relate to handling, processing, and utilization of foods.

311—**Food Science II.** 3-4-0-**X**. Materials and methods applicable to foods industries in regard to additives, packaging, sanitation, and quality control.

350—**Food Processing Technology I.** 4-2-4-**X**. General characteristics of raw food materials; methods of food preservation; processing objectives; packaging; and water, waste disposal, and sanitation.

351—**Food Processing Technology II.** 4-2-4-**X**. Continuation of FST 350.

405—**Food Process Engineering.** 3-4-0-**X**. Application of chemical engineering principles in food processing.

410—**Food and Drug Laws—Standards and Regulations.** 3-4-0-**X**. Federal, state, and city food and drug laws, and how they regulate the manufacture, distribution, and use of foods and regulated products.

450—**Food Analysis I.** 4-2-4-**X**. Principles of official and acceptable chemical, microbiological, and physical methods used in food analysis, and application of these methods to examination of raw and processed foods.

451—**Food Analysis II.** 4-2-4-**X**. Continuation of FST 450.

489—**Seminar.** 1 hr. arr. **X.** Discussion of current topics in Food Science and Technology.

492—**Special Problems.** 1-3 hrs. arr. **X.**

FOREIGN LANGUAGES (FL—228)

100—**English as a Foreign Language.** 3-4-0-**Q.*** Credit not applicable toward degree.

111—**French: One.** 3-4-0-**F,W,Su.**
112—**French: Two.** 3-4-0-**W,S,Su.**
121—**German: One.** 3-4-0-**F,W.**
122—**German: Two.** 3-4-0-**W,S.**
141—**Italian: One.** 3-4-0-**F.**
142—**Italian: Two.** 3-4-0-**W.**
151—**Latin: One.** 3-4-0-**F.**
152—**Latin: Two.** 3-4-0-**W.**
161—**Russian: One.** 3-4-0-**F.**
162—**Russian: Two.** 3-4-0-**W.**
171—**Spanish: One.** 3-4-0-**F,W,Su.**
172—**Spanish: Two.** 3-4-0-**W,S,Su.**
200—**Nature and Evolution of Language.** 3-4-0-**X.**
211—**French: Three.** 3-4-0-**S,Su.**
212—**French: Four.** 3-4-0-**F.**
213—**French: Five.** 3-4-0-**W.**
221—**German: Three.** 3-4-0-**S.**
222—**German: Four.** 3-4-0-**F.**
223—**German: Five.** 3-4-0-**W.**
231—**Greek: One.** 3-4-0-**F.**
232—**Greek: Two.** 3-4-0-**W.**
241—**Italian: Three.** 3-4-0-**S.**
242—**Italian: Four.** 3-4-0-**X.**
251—**Latin: Three.** 3-4-0-**S.**
252—**Latin: Four.** 3-4-0-**X.**
261—**Russian: Three.** 3-4-0-**S.**
262—**Russian: Four.** 3-4-0-**X.**
263—**Russian: Five.** 3-4-0-**X.**
271—**Spanish: Three.** 3-4-0-**S,Su.**
272—**Spanish: Four.** 3-4-0-**F.**
273—**Spanish: Five.** 3-4-0-**W.**
300—**Comparative Phonetics.** 3-4-0-**S,X.**

301—**Credit for Study Abroad.** 3-9 hrs. arr. **Q.** Prerequisites: Intermediate knowledge of the language to be studied; prior arrangements for evaluation and receipt of credit. Credit will be granted for systematic study of the language and culture or the language and literature of a foreign area. Study must be under the direction of a recognized teaching institution approved in advance by the Department of Foreign Languages. The department will examine and grade the progress and achievement of the participants in this program before granting credit.

302—**Poetry.** 3-4-0-**Su.**
303—**Prose Fiction.** 3-4-0-**W.**
304—**Drama.** 3-4-0-**S.**

311—**French: Conversational Practicum.** 3-4-0-**F,W.** May be taken for a total of six hours.

312—**French: Advanced Grammar and Composition.** 3-4-0-**S.**

321—**German: Conversational Practicum.** 3-4-0-**F,W.** May be taken for a total of six hours.

322—**German: Advanced Grammar and Composition.** 3-4-0-**S.**

361—**Russian: Conversational Practicum.** 3-4-0-**X.** May be taken for a total of six hours.

362—**Russian: Advanced Grammar and Composition.** 3-4-0-**X.**

371—**Spanish: Conversational Practicum.** 3-4-0-**F,W.** May be taken for a total of six hours.

372—**Spanish: Advanced Grammar and Composition.** 3-4-0-**S.**

400—**Introduction to Exotic Languages.** 3-4-0-**W,S,Su.** May be taken for a total of nine hours.

401—**Advanced Credit for Study Abroad.** 3-9 hrs. arr. **Q.** Prerequisites: Advanced knowledge of the language to be studied; otherwise same as FL 301. (See FL 301.)

402—**Introduction to the Advanced Study of Foreign Literature.** 3-4-0-**W.**

403—**Translation.** 3-4-0-**X.** May be taken for a total of nine hours.

404—**Methods of Teaching Foreign Language.** 3-4-0-**X.** May be taken for a total of six hours.

415—**French: History of Literature.** 3-4-0-**Q.** May be taken for a total of twelve hours.

425—**German: History of Literature.** 3-4-0-**Q.** May be taken for a total of twelve hours.

431—**Greek: Three.** 3-4-0-**X.**

432—**Greek: Four.** 3-4-0-**X.**

435—**Greek: Readings in Literature.** 3-4-0-**X.** May be taken for a total of nine hours.

455—**Latin: Readings in Literature.** 3-4-0-**X.** May be taken for a total of nine hours.

465—**Russian: History of Literature.** 3-4-0-**X.** May be taken for a total of twelve hours.

475—**Spanish: History of Peninsula Literature.** 3-4-0-**F.** May be taken for a total of twelve hours.

476—**Spanish: History of Latin American Literature.** 3-4-0-**W,S.** May be taken for a total of twelve hours.

492—**Special Problems.** 1-3 hrs. arr. **Q.** May be taken for a total of nine hours.

*This and many other FL courses incorporate language laboratory activities during and in addition to classroom instruction. Since the proportion varies within a given course, laboratory hours are not specified.

FUNDAMENTALS OF SCIENCE (FS—390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit for each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by other science departments of this and other institutions, the student should check carefully with his adviser and/or the Department of Science Education prior to enrolling in these courses.

104—**Physical Science I.** 3-4-0-**Q**. A study of matter and energy in the universe; the forces acting within the universe; and the laws governing these phenomena.

105—**Physical Science II.** 3-4-0-**Q**. The study of elementary and compound substances, the arrangement of forces acting on these substances in the universe.

106—**Biological Science I.** 3-4-0-**Q**. Studies in the general life science with emphasis on the systems of Man.

107—**Biological Science II.** 3-4-0-**Q**. Studies of the diversity of life in plants and animals, history of life, the physical environment, social behavior, animals and man in nature.

131—**General Physical Science I.** 3-4-0-**Q**. Prerequisite: Elementary Education major. An investigative approach to study of the interaction of matter and energy with an emphasis upon energy and its transformations.

132—**General Physical Science II.** 3-4-0-**Q**. Prerequisite: Elementary Education major. An investigative approach to a study of the interaction of matter and energy with an emphasis upon matter, its structure, and transformations.

133—**General Biological Science I.** 3-4-0-**Q**. Prerequisite: Elementary Education major. A study of the basic patterns of life and a modern system of classifying organisms.

134—**General Biological Science II.** 3-4-0-**Q**. Prerequisite: Elementary Education major. A study of the function of maintenance, regulation, and reproduction of organisms and of the patterns of interaction between organisms.

GENETICS (GEN—312)

201—**Genetics in Human Affairs.** 3-4-0-**X**. For students in Honors Program only. The basic principles of human genetics and societal problems.

402—**Genetics.** 3-4-0-**Q**. Prerequisite: MIC 101 or BIO 101; one quarter of organic chemistry recommended. The fundamental principles of heredity.

403—**Advanced Genetics.** 4-2-4-**W**. Prerequisite: GEN 402. A continuation of GEN 402.

411—**Physiological Genetics.** 3-4-0-**S**.* Prerequisites: GEN 402, 403. Physiological concepts of heredity.

421—**Interpretation of Biological Data.** 3-2-2-**S**.* Prerequisites: GEN 402 and permission of instructor. Techniques applicable to the design and interpretation of biological research data.

451—**Medical Genetics.** 3-4-0-**Q**. The basic principles of human genetics with emphasis on the causation of abnormality and disease.

461—**Microbial Genetics.** 3-4-0-**F**.* Prerequisites: GEN 402, 403. The genetics and molecular biology of microorganisms and viruses.

492—**Special Problems I, II, III.** 2-6 hrs. arr. **X**. A course in library and/or laboratory research on a problem chosen in consultation with the adviser.

*Alternate years

GEOGRAPHY (GHY—268)

103—**Principles of Global Geography.** 3-4-0-**Q**. An introductory course in world regional geography with emphasis on man's relation to the land.

210—**Principles of Cartography.** 3-4-0-**F,W**. Theory and construction of maps from compilation through reproduction: projections design, symbols, and techniques.

223—**Weather and Climate.** 3-4-0-**F,S**. Survey of elements of weather and climate; emphasis on processes, distribution patterns, and impact on man.

224—**Geography of Landforms.** 3-4-0-**W,Su**. Study of structure, process, and stage of geometric configurations of earth's land surface and influences exerted on human activity.

300—**Geography of Mississippi.** 3-4-0-**Su**. Survey of physical, economic, and historical geography of state; emphasis on man-environment relations and problems.

302—**Geography of the United States and Canada.** 3-4-0-**F**. Introduction to physical and human geography of U.S. and Canada; emphasis on natural resources and patterns of economic activity.

303—**Geography of South America.** 3-4-0-**W**, 1974. Analysis of settlement forms, resource potential, and development problems and progress by political units.

304—**Geography of the Caribbean Countries.** 3-4-0-**W**, 1975. An historic-geographical approach analyzing spatial ralations of cultures and economies in the Caribbean realm.

306—**Geography of Europe.** 3-4-0-**S**, 1976. Topical and regional study of Europe; emphasis on industrial, trade, urban, and other cultural patterns.

307—**Geography of Asia.** 3-4-0-**W**, 1975. Analysis of physical and cultural environments of monsoon Asia; includes evaluation of area's resource and development potential.

308—**Geography of Africa.** 3-4-0-**S**, 1975. Regional synthesis of physical and cultural features which characterize the African continent.

331—**Cultural Systems in the Environment.** 3-4-0-**W,Su**. Geographical analysis of man's interaction with environment through time; considers spatial significance and distribution of various cultural elements.

341—**World Political Geography.** 3-4-0-**F,Su**. Geographic approach to patterns of power and conflict among nations. Consideration of strategic areas, disputed zones, and regional blocs.

350—**Introduction to Economic Geography.** 3-4-0-**F,S**. Principles of economic geography as developed through regional studies of characteristics and areal associations of economic phenomena.

360—**Introduction to Community and Regional Planning.** 3-4-0-**F**. A review of the fundamentals and historic development of community and regional planning.

361—**Regional Planning and Development.** 3-4-0-**S**. An introduction to the concepts, techniques, and procedures of regional planning and development.

363—**Community and Regional Planning I: Theory, Methods, and Analysis.** 3-4-0-**W**. Emphasis on research and analytical techniques applicable to community and regional planning.

364—**Community and Regional Planning II: Comprehensive Planning Elements.** 3-4-0-**S**. Review and application of techniques and procedures associated with design and preparation of community and regional plans.

370—**Conservation of Natural Resources.** 3-4-0-**F**. An analysis of basic principles and problems associated with the use, misuse, and conservation of natural resources.

410—**Advanced Cartography.** 3-4-0-**F,S**. Prerequisite: GHY 210. Map reproduction techniques, color preseparation, scribing, and quantitative symbolization.

411—**Aerial Photograph Interpretation.** 3-4-0-**F**. Systematic treatment of elements and steps involved in interpreting, measuring, and mapping of images appearing on aerial photographs.

412—**Remote Sensing of the Environment.** 3-4-0-**W**. Prerequisite: GHY 411 or permission of instructor. Survey of theory and application of remotely-sensed imageries generated from aircraft and spacecraft for geographic, environmental, and planning purposes.

413—**Field Methods in Geography.** 3-4-0-**S**. Consideration of basic methods of geographic analysis used in classifying, analyzing, and reporting field-gathered data.

414—**Urban Field Methods.** 3-4-0-**S**, 1975. Prerequisite: GHY 460. Application of field techniques used in collecting, presenting, and analyzing data related to urban research problems.

415—**Quantitative Methods in Geography.** 3-4-0-**W**. Prerequisite: A basic course in statistical methods. Application of statistical and other quantitative techniques to problems of spatial analysis.

416—**Computer Applications in Geography.** 3-4-0-**W,S**. Prerequisite: GHY 415 or consent of instructor. Study and application of computer mapping as a tool of geographic analysis.

422—**Geography of Soils.** 3-4-0-**S**. Study of formulation, distribution, and use of soils; emphasis on soils of south Mississippi; fieldwork and laboratory analysis.

425—**Environmental Climatology.** 3-4-0-**Su**. Study of climatological aspects of atmospheric pollution; includes chemical, medical, legal, economic, and community-planning dimensions of air pollution.

435—**Historical Geography.** 3-4-0-**W**. Study of evolution of cultural landscapes of the area now comprising the United States; emphasis on processes of change.

440—**Population and Settlement Geography.** 3-4-0-**S**. A geographical analysis of the biological and cultural characteristics of population.

451—**Industrial Location Analysis.** 3-4-0-**S**, 1975. Prerequisite: GHY 350 or permission of instructor. Principles of industrial location analysis; emphasis on theory, locational decision-making, and regional location of manufacturing.

452—**Rural Land Use.** 3-4-0-**F**. Prerequisite: GHY 350 or permission of instructor. Study of characteristic ways that man utilizes rural land—including settlement, landholding, and agricultural patterns.

453—**Transportation Geography.** 3-4-0-**F**, 1975. Prerequisite: GHY 350 or permission of instructor. Study of the various transportation modes and the effect they have on contemporary development problems.

460—**Urban Geography.** 3-4-0-**F**. Prerequisite: GHY 350 or permission of instructor. Review of urban development, processes contributing to development, and effect these processes have on cities.

465—**Community and Regional Planning III: Programming and Implementation.** 3-4-0-**W**. Consideration of various legal and institutional tools related to implementation of community and regional plans.

466—**Public Policy and the Planning Process.** 3-4-0-**S**. Deals with function of planning process in formulating effective public policy for development of communities and regions.

471—**Resource Management: Theories, Methods, and Models.** 3-4-0-**W**. Study of ecological, economic, cultural, and political decision theories, methods, and practices pecular to resource management.

472—**Forest Resource Management.** 3-4-0-**Su**. Study of forest-management principles and practices related to both private and public forest holdings.

473—**Water Resources.** 3-4-0-**F**. Study of hydrologic processes and their application to needs of cities, industry, agriculture, and recreation.

474—**Watershed Management.** 3-4-0-**S**. Investigation of watersheds as planning and management units; emphasis on relationship of water to other resources. Game theory used.

475—**Coastal Zone Management.** 3-4-0-**F**. Study of coastal-zone problems and conflicts; emphasis on multiple-objective planning and resource-management procedures.

491—**Geography Internship.** 3-9 hrs. arr. **Q**. May be repeated for a total of nine hours.

492—**Special Problems.** 1-3 hrs. arr. **Q**. May be repeated for a total of six hours.

GEOLOGY (GLY—340)

101—**Physical Geology.** 3-4-0-**Q**. The physical processes and materials of man's environment. An introductory course.

102—**Physical Geology Laboratory.** 1-0-4-**Q**. An elementary study of rocks, minerals, and maps.

103—**Historical Geology.** 3-4-0-**Q**. Prerequisite: GLY 101.

104—**Historical Geology Laboratory.** 1-0-4-**Q**. Introduction to the study of fossils and interpretation of geologic maps. Field trips may be required.

105—**Geology for Construction Technologists.** 3-3-2-**X**. Study of geological hazards of building and factors concerned with site selection and preparation.

301—**Mineralogy I.** 3-2-4-**F**. Prerequisites: GLY 101, CHE, 101, 102, 103. Elements of crystallography, silicate structure, and determinative mineralogy.

302—**Mineralogy II.** 3-3-2-**W**. Prerequisite: GLY 301, CHE 361, 362 or 461 is recommended. Elements of chemical and structural mineralogy.

304—**Petrology.** 3-3-2-**S**. Prerequisites: GLY 301, 302. Principles of rock genesis. Lithologic taxonomy and recognition.

306—**Environmental Geology.** 3-4-0-**F**. Material and energy systems as they relate to man and his environmental problems.

308—**Structural Geology.** 3-3-3-**F**. Principles of rock deformation; field trips. Prerequisites: GLY 103 and MAT 103.

310—**Geomorphology.** 3-2-4-**S**. Field trips. Prerequisites: GLY 101, 102. Study of geologic processes involved in landscape development.

341—**Invertebrate Paleontology.** 3-2-4-**W**. Prerequisites: GLY 103 and permission of instructor. Field trips. Taxonomy, morphological features, and geologic distribution of invertebrate fossils.

401—**Principles of Stratigraphy.** 3-4-0-**F**. Weekend field trip. Prerequisites: GLY 341, 301, 308, or permission of instructor.

403—**Optical Mineralogy.** 3-3-3-**W**. Prerequisites: GLY 301 and MAT 103. Introduction to optical mineralogy.

405—**Sedimentology.** 3-2-4-**X**. Prerequisite: GLY 301.

407—**Petrography.** 3-3-3-**S**. Prerequisites: GLY 304 and 403. Systematic study of rocks by means of the polarizing microscope.

410—**Elements of Geochemistry.** 3-4-0-**X**. Prerequisite: GLY 301. Chemical processes in the environment as a guide to environmental analysis and geological synthesis.

420—**Elements of Geophysics.** 3-4-0-**X**. Prerequisites: GLY 101, MAT 103, PHY 103 (or 203), and consent of instructor. Applications of physics to geological investigations.

SCI 426—**Advanced Geophysics.** 3-3-1-**S**. Prerequisite: PHY 103 (or 203). Corequisite: MAT 277. A development of the fundamental physical principles governing gravitation, electricity and magnetism, and seismic wave propogation.

441—**Paleoecology.** 3-2-4-**X**. Prerequisites: GLY 341 and BIO 461, or permission of instructor. A study of the relationship between ancient organisms and the environment in which they lived; field trips.

443—**Micropaleontology I.** 3-1-6-**X**. Prerequisite: GLY 341. Taxonomy, morphology, and stratigraphic use of Foraminifera; field trips.

450—**Introductory Oceanography.** 3-4-0-**F**. Prerequisites: GLY 103, CHE 103, PHY 103, and consent of instructor. Basic principles of geological oceanography.

452—**Physical Marine Geology.** 3-20-20-**Su**. Gulf Coast Research Laboratory. Prerequisites: GLY 101 and 103. Geological processes sedimentary environments and geomorphological features of marine coastal, intertidal, and near-shore zones.

454—**Chemical Marine Geology.** 3-3-37-**Su**. Gulf Coast Research Laboratory. Prerequisites: GLY 103, 301, and one year of chemistry, or permission of instructor. Supervised research on the chemistry of the coastal waters of Mississippi and geochemistry of the bottoms.

456—**Special Problems in Marine Science.** 1-6 arr. **Su**. Gulf Coast Research Laboratory. Prerequisites: To be set by Problem Director. Area of Study: Geology.

470—**Petroleum Geology.** 3-2-4-**X**. Prerequisites: GLY 304, 308, 401. The origin, occurrence, and accumulation of oil and natural gas; field trips.

472—**Economic Geology.** 3-3-2-**S**. Prerequisites: GLY 301, 304. Principles of ore genesis.

474—**Geological Excursion.** 1-0-48-**X**. (May be repeated, in a different region, for a total of three hours credit.) Field studies of geological phenomena in areas remote from the campus, by means of 8 to 10 days field trips between quarters.

492—**Special Problems in Geology.** 3-0-72-**X**. Prerequisites: Senior standing and permission of the department head. Independent study or research designed for the needs of the individual students.

HEALTH (HTH—715)

101—**Personal Health.** 3-4-0-**Q**. The human body and its function as related to problems of health and disease. (Not to be included in health and physical education major.)

210—**Introduction to School Health Education.** 3-4-0-**F,S**. An orientation to school health with an historical and philosophical perspective.

310—**First Aid.** 2-4-0-**Q**. Standard First Aid as approved by the American Red Cross. (Not to be included in health and physical education major.)

311—**Emergency Health Care.** 3-4-0-**Q**. Standard first aid plus advanced study certifying personnel to conduct first aid courses in school and community.

315—**Anatomical Structures Related to Movement.** 3-4-0-**Q**. Prerequisites: BIO 101 and 102. A study of the skeletal, muscular, circulatory, and neurological structures pertinent to human movement.

321—**Community Health.** 3-4-0-**S,Su**. Community control of environmental health hazards and diseases; health agencies.

341—**Safety.** 3-4-0-**Q**. Accident problems, safety programs, and methods of prevention.

342—**Education for Safe Living.** 3-4-0-**W,Su**. Curriculum development, community resources, and audiovisual materials for teaching safety.

410—**Health Education in Elementary Schools.** 3-4-0-**Q**. Methods and materials for the elementary teacher with special emphasis on instruction and on coordination of school and community health programs.

411—**Health Education in Secondary Schools.** 3-4-0-**W,S,Su**. Materials and techniques for high school teachers of health; conducting the school health program at the secondary level.

412—**Measurement and Evaluation in Health Education.** 3-4-0-**W,S**. A survey of evaluation instruments for appraising personal health, measuring health knowledge, attitudes, interests, and practices, and the interpretation of these data.

415—**School Health.** 3-4-0-**W,S,Su**. Organization and operation of school health programs with emphasis on policies, procedures, problems, cooperating agencies, and field work.

420—**Communicable and Chronic Disease in Men.** 3-4-0-**W,S**. Problems, control, and prevention of communicable and chronic disease in modern society.

421—**Sanitation.** 3-4-0-**W**. Sanitation in the home and school, in food production, water supply, waste, and excreta disposal.

422—**Drugs in Society.** 3-4-0-**W,Su**. Prerequisites: HTH 101 or permission of instructor. Psycho-social, medical, legal, and health aspects of drugs and their abuse, plus a current analysis of the problem in our society.

423—**Curriculum Development in Alcohol Education.** 3-4-0-**S,Su**. An analysis of alcoholism, instructional approaches, and community resources for teaching alcohol misuse and abuse.

430—**Marriage and Human Sexuality.** 3-4-0-**Q**. Physical, emotional, and medical bases for successful courtship, marriage, and parenthood.

440—**Introduction to Driver Education.** 3-4-0-**Q**. Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, and traffic law and regulations.

441—**Traffic Safety Education.** 3-4-0-**Q**. An in-depth study of the major problems in traffic safety, including driver, pedestrian, engineering, and enforcement.

442—**Laboratory Programs in Driver Education.** 3-4-0-**Q**. An examination of the aims, objectives, and role of laboratory programs in driver education. Directed laboratory experiences will be provided.

443—**Methods of Driver and Traffic Safety Education.** 3-4-0-**Q**. Prerequisite: HTH 440. Methods and techniques to develop competence in transferring knowledge and skills as well as inspiring satisfactory attitudes.

444—**Simulation in Driver Education.** 3-4-0-**Q**. Prerequisites: HTH 440 and HTH 443. An audiovisual instructional method designed to complement and supplement other instructional techniques.

488—**Motorcycle Education.** 3-4-0-**Su**. Analysis of the motorcycle traffic problem; methods of teaching classroom and laboratory phases of motorcycle education.

489—**Driver Education for Special Students.** 3-4-0-**Su**. Curriculum development and teaching materials in traffic safety education for special education students.

492—**Independent Study.** 3-4-0-**Q**. A student originated problem, research plan, and reporting of results, with guidance of a chosen adviser.

HISTORY (HIS—272)

Economics 310, Religion 432 and 433, and Political Science 420, 421, and 425 may be elected as history if approved by the student's adviser. No more than six (6) hours of these courses may be counted as history credit.

101—**World Civilization to 1648 A.D.** 3-4-0-**Q**.
102—**World Civilization Since 1648 A.D.** 3-4-0-**Q**.
140—**United States to 1877.** 3-4-0-**Q**.
141—**United States Since 1877.** 3-4-0-**Q**.
300—**Cold War Issues.** 3-4-0-**F,S**.
301—**Survey of the Far East.** 3-4-0-**S**.
302—**Impact of Science on History.** 3-4-0-**S**.
310—**The Ancient World.** 3-4-0-**F**.
311—**The Middle Ages.** 3-4-0-**W**.
312—**Early Modern Europe.** 3-4-0-**S**.
313—**Early English History.** 3-4-0-**F**.
314—**Modern English History.** 3-4-0-**W**.
340—**History of the American Negro.** 3-4-0-**F**.
341—**Mississippi History.** 3-4-0-**Q**.
342—**U. S. Military History.** 3-4-0-**S**.
380—**Colonial Latin America.** 3-4-0-**F**.
381—**Modern Latin America.** 3-4-0-**W**.
410—**Russia to 1917.** 3-4-0-**F**.
411—**Russia Since 1917.** 3-4-0-**S**.
412—**English Constitutional History.** 3-4-0-**S**.
413—**Medieval Life and Thought.** 3-4-0-**W**.
414—**Modern Germany.** 3-4-0-**W**.
415—**French Revolution and Napoleon.** 3-4-0-**F**.

416—**Europe, 1815-1870.** 3-4-0-W.

417—**Europe, 1870-1918.** 3-4-0-S.

418—**Europe, 1918-1939.** 3-4-0-W.

419—**Europe Since 1939.** 3-4-0-S.

420—**Modern France.** 3-4-0-F.

421—**Tudor-Stuart Britain.** 3-4-0-F.

422—**Nineteenth Century Britain.** 3-4-0-W.

423—**Twentieth Century Britain.** 3-4-0-S.

440—**The Age of Jefferson and Jackson.** 3-4-0-F.

441—**American Thought and Culture.** 3-4-0-S.

442—**The Old South.** 3-4-0-F.

443—**The New South.** 3-4-0-W.

444—**United States Constitutional History.** 3-4-0-W.

445—**U. S. Foreign Relations to 1914.** 3-4-0-W.

446—**U. S. Foreign Relations Since 1914.** 3-4-0-S.

447—**Colonial America.** 3-4-0-F.

448—**Revolutionary Era.** 3-4-0-W.

449—**American Political Leaders.** 3-4-0-S.

450—**The Early American Frontier.** 3-4-0-W.

451—**Trans-Mississippi West.** 3-4-0-S.

452—**The Sectional Controversy and the Civil War, 1840-1865.** 3-4-0-S.

453—**Reconstruction and the Emergence of Modern America, 1865-1898.** 3-4-0-F.

454—**The Progressive Era, World War I, Prosperity and Depression, 1898-1933.** 3-4-0-W.

455—**The New Deal, World War II, and Post-War America, 1933-Present.** 3-4-0-S.

480—**History of Mexico and the Caribbean.** 3-4-0-F.

481—**History of South America: The Andean Countries.** 3-4-0-W.

482—**History of South America: Brazil and the Rio de la Plata.** 3-4-0-S.

492—**Special Problems.** 1-3 hrs. arr. **Q.**

HOME ECONOMICS EDUCATION (HEE—820)

111—**Introduction to Home Economics.** 1-2-0-**F.** A course designed to show the value of home economics in personal and family living, as well as in vocational pursuits.

301—**The Teaching of Home Economics Education.** 3-4-0-**Q.** Prerequisite: Junior standing in home economics. A study of teaching techniques, materials and school procedures, as well as planning and organizing curriculum.

302—**Consumer Education.** 3-4-0-**F,W,S.** Prerequisite: Junior standing. A study of the consumer in the economy with emphasis on making wise decisions in the market place.

401—**Demonstration Techniques.** 3-4-0-**F.** Planning and conducting demonstrations for professional home economist.

402—**Teaching of Home Economics to Adults.** 4-3-3-**F,W,S.** Participation in home economics adult programs with emphasis on those for the lower socio-economic groups.

403—**Student Teaching in Home Economics Education.** 9-0-0-**F,W,S.** Prerequisite: HEE 301.

492—**Special Problems in Home Economics Education.** 1-4 hrs. arr. **Q.**

HOUSING AND HOME MANAGEMENT (HHM—825)

340—**Housing and House Furnishings.** 3-4-0-**Q.** Prerequisite: CT 332. A study of the economic and sociological problems in housing and house furnishings.

345—**Household Equipment.** 3-3-2-**F,W,S.** Prerequisite: FN 261. A study of the selection, operation, care, repair, and arrangement of appliances in the home.

441—**Field Work in Equipment.** 9 hrs. arr. **W.** Field work for those planning to become home economists in equipment.

442—**Economics of the Home.** 3-4-0-**Q.** Problems of homemaking relating to wise use of resources.

443—**Home Management Residence.** 4 hrs. arr. **Q.** Prerequisites: FN 362 and C&T 332. (HHM 442 to be taken concurrently.)

492—**Special Problems in Housing and Home Management.** 1-4 hrs. arr. **X.** A. Housing—Prerequisite: HHM 340. B. Equipment—Prerequisite: HHM 345.

INDUSTRIAL AND VOCATIONAL EDUCATION (IVE—165)

116—**General Shop.** 3-3-3-**F.** Introduction to a variety of industrial materials and processes.

121—**Engineering Drawing I.** 3-3-3-**F,Su.** Introduction to mechanical drafting.

122—**Engineering Drawing II.** 3-3-3-**W,Su.** Prerequisite: IVE 121. A continuation of mechanical drafting.

301—**Industrial Arts Electricity.** 3-3-3-**F,Su.** Introduction to electrical theory and application.

302—**Industrial Arts Electronics.** 3-3-3-**W,Su.** Prerequisite: IVE 301. Introduction to electron theory and application.

303—**Industrial Electronics.** 3-3-3-**S.** Prerequisite: IVE 302. Solid state, printed circuits, logic circuits, etc.

310—**Industrial Design.** 3-3-3-**X.** Introduction to design for industrial education teachers.

314—**Leather Craft.** 3-3-3-**S.** Designing, tooling, carving, and finishing leather products.

315—**Plastics.** 3-3-3-**W,Su.** Materials in common use, project design, and fabrication.

316—**Power Mechanics I.** 3-3-3-**S,Su.** Development and use of all forms of power. Laboratory experiences with gasoline engines.

317—**Photography in Industrial Arts.** 3-3-3-**W.** Use of photography in the industrial arts curriculum.

318—**Materials and Processes of Industry.** 3-4-0-**F,S.** A study of manufacturing methods with a wide variety of industrial materials.

319—**Industrial Arts for Elementary Teachers.** 3-4-0-S. A methods course for elementary teachers.

323—**Engineering Drawing III.** 3-3-3-S,Su. Prerequisite: IVE 122. Continuation of mechanical drafting.

324—**Engineering Drawing IV.** 3-3-3-X. Prerequisites: ITE 323 and instructor's permission. A study of drafting techniques in solving unusual problems.

325—**Descriptive Geometry.** 3-3-3-X. Drawing board application of geometric principles used in engineering, architecture, etc.

331—**Woodwork.** 3-3-3-Q. Introduction to woodworking tools; materials, processes, and products.

332—**Wood Finishing.** 3-3-3-Q. A general course covering equipment, materials, and techniques.

333—**Advanced Woodwork.** 3-3-3-Q. Prerequisite: IVE 331. Emphasis upon design, machine use, and advanced project construction.

334—**Wood Technology.** 3-3-3-X. Prerequisites: IVE 331 and instructor's permission. Advanced techniques applied to veneers, plywoods, adhesives, etc.

340—**Welding.** 3-3-3-Q. Theory and practice in gas and arc welding.

341—**Sheet Metal Work.** 3-3-3-W,S. Pattern making and metal forming processes.

342—**Machine Shop.** 3-3-3-F,S. Typical machine operations including turning, drilling, milling, etc.

343—**Decorative Metal Work.** 3-3-3-X. Designing, constructing, and finishing of decorative objects in nonferrous metals.

344—**General Metals.** 3-3-3-F. Introduction to the field of metal working.

345—**Casting Technology.** 3-3-3-W,S. Investigations and laboratory experiences in casting processes.

350—**Architectural Drawing.** 3-3-3-F,S. Beginning course in floor plans, details, lettering, etc.

400—**School Shop Planning and Equipment Selection.** 3-4-0-F. A study of shop layout problems.

401—**Shop Care and Management.** 3-4-0-F,W,Su. Organization of students and physical facilities.

402—**History and Philosophy of Industrial Arts.** 3-4-0-X. A study of the underlying foundations and principles, leaders, and movements in industrial arts.

403—**Occupational Analysis and Course Construction.** 3-4-0-X. Analyzing occupations into their basic components and arranging for instructional purposes.

404—**Problems of the Coordinator.** 3-4-0-S. A study of the problems, procedures, techniques, etc., in the operation of part-time cooperative education.

420—**Industrial Materials Testing.** 3-3-3-W,S. A systematic study of common industrial materials, their properties, and application through experiments and research.

421—**Power Transmissions.** 3-3-3-W. A study of mechanical, hydraulic, pneumatic, and electrical power amplification and transmission.

431—**Principles of Trade and Industrial Teaching.** 3-4-0-**W,S,Su**. A methods course for teaching trade and industrial subjects.

432—**Problems of Adult Education.** 3-4-0-**X**. Methods and techniques in teaching adults in industrial education classes.

433—**Curriculum Construction for Cooperative and Adult Vocational Classes.** 3-4-0-**X**. Objectives, content, arrangement and techniques of teaching in part-time cooperative and evening programs.

434—**Occupational Surveys.** 3-4-0-**X**. Planning and conducting occupational surveys for educational purposes.

435—**Instructional Materials for Industrial Education.** 3-4-0-**X**. Identification, selection, development, and use of instructional aids in vocational and technical education.

436—**Curriculum Construction for Vocational Technical Education.** 3-4-0-**Su**. Principles, practices, and techniques in planning and establishing a class or program in vocational technical education.

480—**Foundations and Philosophy of Vocational Technical Education.** 3-4-0-**Su**. Objectives, principles, aims, and organization of programs in schools and colleges.

481—**Testing and Evaluation in Vocational Education.** 3-4-0-**S,Su**. Development and utilization of various measuring devices and techniques.

482—**School Shop Safety.** 3-4-0-**F,W,Su**. Analysis of fundamentals of accident prevention and their application in school shops.

492—**Industrial Special Problems.** Hrs. arr. Prerequisites: Senior standing and chairman's permission.

INSTITUTION ADMINISTRATION (IAD—817)

271—**Problems in Managing a School Cafeteria.** 3-4-0-**X**. Course in the organizational structure of the federal school lunch program. Emphasis placed on management procedures.

272—**Basic Principles of Quantity Food Service.** 3-3-3-**X**. Emphasis on planning, preparation, and service for large groups.

273—**Sanitation for Institutions.** 3-4-0-**X**. Emphasis on all phases of sanitation.

370—**Catering.** 2-2-2-**S**. Principles, techniques, and implementation of special functions in food service.

471—**Institution Food Purchasing.** 3-4-0-**W**. Prerequisite: Junior standing. Investigation of marketing conditions, sources, standards, grades, methods, and storage of classes of foods.

472—**Quantity Food Production and Service.** 4-4-4-**F**. Emphasis on actual food preparation and serving on quantity level.

473—**Food Systems Management.** 4-4-4-**W**. Prerequisite: IAD 472. Organization, financial control, and personnel management for institution food departments.

474—**Layout and Equipment.** 3-4-0-**S**. Prerequisite: Junior standing. A study of the layout and function of physical facilities with emphasis on arrangement, selection, cost, and care of equipment.

JOURNALISM (JOU—212)

102—**Beginning Reporting.** 3-2-2-**Q**.

140—**Elements of Photography.** 3-4-0-**F,S**.

300—**Journalism Laboratory.** 1-0-3-**Q**. (May be repeated.)

301—**Feature Writing.** 3-3-1-S.
311—**Editing.** 3-2-2-W.
312—**Design Typography.** 3-3-1-W.
313—**Newspaper Design and Make-up.** 3-2-2-S.
315—**Editorial Writing.** 3-2-2-S.
331—**Print Media Advertising.** 3-2-2-W.
340—**Photojournalism.** 3-2-2-Q.
402—**Advanced Reporting.** 3-2-2-F,S.
403—**Specialized Reporting.** 3-2-2-W.
421—**Public Relations.** 3-4-0-F.
422—**Publicity Methods.** 3-3-1-W.
425—**Business and Professional Publications.** 3-2-2-W.
428—**Public and Press Relations Management.** 3-4-0-S.
440—**Advanced Press Photography.** 3-2-2-S.
450—**History of Journalism.** 3-4-0-F.
460—**Law of the Press.** 3-4-0-F.
470—**Newspaper Organization and Management.** 3-4-0-F.
492—**Special Problems.** 1-3 hrs. arr. **X.**

LIBRARY SCIENCE (LS—170)

101—**Introduction to the Library.** 1-1-1-**Q.** Basic course in keys to information resources. Intended for non-library science majors.

301—**Book Selection.** 3-3-0-**X.** Principles involved in selecting all types of learning materials; evaluation of selection tools.

302—**Books and Related Materials for Children.** 3-3-0-**W,Su.** Extensive reading and viewing of materials available for children; effective use of materials studied.

303—**Books and Related Materials for Youth.** 3-3-0-**S,Su.** Extensive reading of modern books for high school students; evaluation of audiovisual materials for the young adult.

415—**Organization and Administration of School Libraries I.** 3-3-0-**X.** The study of the library as a force for educational excellence in any school; day-to-day administration and organizational routines.

416—**Organization and Administration of School Libraries II.** 3-3-0-**X.** Continuation of LS 415.

427—**School Library Reference Materials I.** 3-3-0-**X.** A study of the basic information sources and methods for locating information.

428—**School Library Reference Materials II.** 3-3-0-**W,Su.** Further theory of reference services; some of the current problems that challenge reference librarians.

462—**Classification and Cataloguing I.** 3-3-0-**X.** A study of the basic principles and methods of cataloguing; introduction to Dewey Decimal Classification.

463—**Classification and Cataloguing II.** 3-3-0-**X.** Prerequisite: LS 462. Expansion of the principles and methods of classification and cataloguing with attention given to more advanced problems.

470—**Selection and Organization of Multi-Media Materials.** 3-3-0-**Q.** Principles and methods of developing multi-media materials and services in libraries.

471—**Library Preparation and Production of Multi-Media Materials.** 3-3-0-**F,S**. Prerequisite: LS 470 or CIF 416. Fundamental techniques for design and production of multi-media materials.

472—**Administration and Supervision of School Media Centers.** 3-3-0-**W,Su**. Prerequisites: LS 415 and LS 470 or CIF 416. A survey of current trends in the management and services of school library media centers.

489—**Practice Work.** 4-0-0-**Q**. Culmination course for non-teaching majors in library science. Approximately 150 hours of supervised library experience.

490—**School Library Problems.** 2-4 hrs. arr. **Q**. Individual investigation of topics to be approved by the department chairman.

491—**Library Administration Workshop.** 3-3-0-**Su**. Intensive two-week workshop on problems of media center administration. May be taken twice; only three hours of credit can be applied to degree requirement.

MANAGEMENT (MGT—620)

360—**Fundamentals of Management.** 3-4-0-**Q**. Management concepts and principles applied to the processes of planning, organization, and control in business enterprise.

362—**Fundamentals of Industrial Management.** 3-4-0-**F,W,Su**. Principles and policies in managing an industrial plan, including location, layout, purchasing, materials handling, maintenance, and production control.

364—**Personnel Management.** 3-4-0-**Q**. The concepts and tools of personnel management with emphasis on procuring, developing, maintaining, and utilizing an effective work force.

370—**Labor Law and Legislation.** 3-4-0-**Q**. A study of legislation and court decisions pertaining to current labor-management relations.

386—**Industrial Safety.** 3-4-0-**F,S**. A study of industrial accident prevention and current legislation regarding industrial health and safety.

454—**Human Relations.** 3-4-0-**Q**. A study of individual and group interaction and behavior in organizations, including motivation and conflict.

456—**Industrial Training.** 3-4-0-**F,W**. A study of methods, procedures, and psychology in planning and organizing effective in-service programs for employees and management.

464—**Work Methods and Performance Standards.** 3-4-0-**F,S**. Prerequisites: MGT 362 and elementary statistics. Fundamentals of operation analysis, motion economy, time study, job standards, and work methods improvement.

466—**Production and Quality Control.** 3-4-0-**W,S**. Prerequisites: MGT 362 and elementary statistics. Problems in management relating to production and quality of output, with emphasis on techniques to achieve minimum cost.

468—**Wage and Salary Administration.** 3-4-0-**Q**. Prerequisite: MGT 360. Problems in wage and salary administration including job analysis, job evaluation, incentive systems, wage surveys, and fringe benefits.

472—**Collective Bargaining.** 3-4-0-**W,S,Su**. Prerequisite: MGT 370. An integrated study of collective bargaining theory and practical application, augmented with cases and role playing.

476—**Managerial Systems Analysis.** 3-4-0-**W,S**. Prerequisite: MGT 362. Management systems and procedures techniques for improving managerial controls and reducing operating costs.

482—**Production Problems Seminar.** 3-4-0-**F,S**. Prerequisite: Background in industrial management. A case approach to problems such as selection and maintenance of equipment, product mix and quality, and production controls.

484—**Problems in Personnel Administration.** 3-4-0-**Q**. Prerequisite: Background in personnel management. An application of the principles and techniques of personnel administration through the use of case analysis, incidents, and role playing.

485—**Administrative Policy and Decision Making.** 3-4-0-**Q**. Prerequisites: ACC 300, ECO 256, MGT 360, MKT 300, and FIN 389. An integrated study of administrative processes covering the major fields of business administration.

MARKETING (MKT—625)

300—**Principles of Marketing.** 3-4-0-**Q**. A survey course of marketing in present day society; functions, channels of distribution and institutions are examined.

322—**Marketing Problems.** 3-4-0-**Q**. An introductory course in problem-solving techniques which emphasizes creative problem-solving methodology as applied to marketing.

330—**Salesmanship.** 3-4-0-**Q**. A study of the principles of persuasion as applied to the art of salesmanship.

342—**Principles of Retailing.** 3-4-0-**Q**. The operation of retail stores including location, display, merchandise, planning, and control.

355—**Principles of Advertising.** 3-4-0-**Q**. Methods used to disseminate information concerning goods and services.

365—**Consumer Behavior.** 3-4-0-**Q**. Prerequisite: MKT 300. Analysis of human behavior in the market place. Emphasis is placed on behavioral patterns, motivational research, and communication.

380—**Industrial Marketing.** 3-4-0-**S,Su**. Prerequisite: MKT 300. Special problems involved in marketing materials, equipment, and supplies to manufacturers, and other business firms.

424—**Marketing Research.** 3-4-0-**Q**. Prerequisite: ECO 302. Principles and techniques used in marketing research to solve factual and qualitative marketing problems.

428—**Marketing Management.** 3-4-0-**Q**. A comprehensive course designed to synthesize the more specialized marketing knowledge of the student, through the study of case histories.

430—**Sales Management.** 3-4-0-**W,Su**. Prerequisite: MKT 330. A study of the principles involved in the selection, training, and management of salesmen.

442—**Advanced Retailing.** 3-4-0-**S**. Prerequisite: MKT 342. A study of the various operations performed in a retail store. The modified case method of instruction is used.

455—**Advanced Advertising.** 3-4-0-**F,S**. Prerequisite: MKT 355. Principles and techniques of advertising presentation adaptable to mass communication media and direct advertising.

458—**Promotion Development.** 3-4-0-**W**. Prerequisite: MKT 355 or

consent of instructor. The relationships of the business organization to the various interest groups which affect its promotional results.

495—**International Marketing.** 3-4-0-**W.** Prerequisites: MKT 300, MGT 360. The economic, political, and cultural aspects of international business operations.

MARRIAGE AND FAMILY LIFE (MFL-830)

150—**Social Competencies.** 2-3-0-**Q.** A course designed to help the student develop competencies in social interaction.

151—**Personal Development, Dating, and Courtship.** 3-4-0-**S.** Identifying student interests and problems arising out of the college life.

351—**Marriage and Family Living.** 3-4-0-**Q.** Prerequisite: Junior or senior standing. A course designed to give better understanding of the factors that contribute to success and happiness in marriage.

451—**Seminar in Marriage Adjustments.** 3-4-0-**X.** Prerequisite: Engaged or married couples or MFL majors. Broad areas of marriage adjustment with emphasis on needs and interests of the group.

452—**Parenthood.** 3-4-0-**X.** Prerequisite: MFL 351 or permission of instructor. Preparation for parenthood. Family planning, role analysis, and family interaction.

492—**Special Problem in Marriage and Family Living.** 1-4 hrs. arr. **X.** Prerequisites: MFL 351 and consent of instructor.

MATHEMATICS (MAT-350)

100—**Mathematics for the Arts and Humanities.** 3-4-0-**Q.** Basic mathematical concepts from logic, algebra, calculus, probability, statistics, computers, and modern applications.

101—**College Algebra.** 3-4-0-**Q.** Exponents and radicals, polynomials, factoring, functions and graphs, linear and quadratic equations and inequalities.

103—**Plane Trigonometry.** 3-4-0-**Q.** Trigonometric functions and their inverses, trigonometric identities and equations, solutions of triangles, logarithms.

112—**Mathematics for Business and Social Sciences.** 3-4-0-**Q.** Prerequisite: MAT 101. Sets, distance and midpoint formulas, relations, functions, graphs, logarithms, sequences, interest, equations, matrices, inequalities.

The above courses are open only to freshmen. Other students desiring to take these courses must have approval from the chairman of the Mathematics Department.

171—**Analytic Geometry.** 3-4-0-**Q.** Prerequisite: Trigonometry. Equations of lines, conic sections, rectangular and polar coordinates, translation and rotation of axes.

210—**Mathematics for Elementary Teachers I.** 3-4-0-**Q.** The real number system and its major subsystems: natural numbers, integers, rational numbers. (Open only to elementary and special education majors. A student cannot receive credit for both MAT 100 and MAT 210.)

276—**Calculus I.** 3-4-0-**Q.** Prerequisite: MAT 103. Functions, limits, differentiation, integration.

277—**Calculus II.** 3-4-0-**Q.** Prerequisite: MAT 277. Applications of

differentiation and integration, trigonometric and transcendental functions.

310—**Mathematics for Elementary Teachers II.** 3-4-0-**Q.** Prerequisite: MAT 210. Basic concepts of algebra and informal geometry. (Open only to elementary and special education majors.)

312—**Mathematics for Management and Economics.** 3-4-0-**X.** Prerequisite: MAT 112. Introduction to linear programming, elementary functions, differential and integral calculus with applications. (A student who receives credit for at least one of the calculus courses, MAT 276, 277, 378, 379, cannot use this course to satisfy any degree requirements.)

326—**Linear Algebra I.** 3-4-0-**Q.** Prerequisite: MAT 276. Vector spaces, systems of linear equations, linear transformations, matrices, inner products.

341—**Foundations of Mathematics.** 3-4-0-**Q.** Prerequisite: Consent of instructor. Logic, set theory, relations, functions, cardinal numbers.

378—**Calculus III.** 3-4-0-**Q.** Prerequisite: MAT 277. Techniques of integration, parametric equations, polar coordinates, vectors.

379—**Calculus IV.** 3-4-0-**Q.** Prerequisite: MAT 378. Partial differentiation, multiple integrals, indeterminate forms, infinite series.

405—**Introduction to Differential Equations I.** 3-4-0-**Q.** Prerequisite: MAT 378. Linear ordinary differential equations with applications to physics, chemistry, and engineering, an introduction to power series solutions.

410—**Mathematics for Teachers of Junior High School Mathematics.** 3-4-0-**W,Su.** Numbers and infinite sets, geometry, non-Euclidean geometry, coordinate geometry, trigonometry, functions, probability, statistics. (Open only to elementary and special education majors or as an elective for mathematics majors.)

411—**Vector Analysis.** 3-4-0-**F,S.** Prerequisite: MAT 379. Vector valued functions, space curves, line and surface integration with introduction to the divergence theorem, Green's and Stokes theorems.

415—**Introduction to Differential Equations II.** 3-4-0-**X.** Prerequisite: MAT 405. Systems of linear differential equations, characteristic equations, operator methods, approximating solutions, Laplace transforms.

417—**Partial Differential Equations.** 3-4-0-**X.** Prerequisites: MAT 405 and MAT 411. Integrability conditions, quasilinear and linear equations, applications to physics, classification of second order equations and canonical forms, separation of variables.

418—**Linear Programming.** 3-4-0-**X. Prerequisite:** MAT 326. Convex sets, linear inequalities, extreme-point solutions, simplex procedure, applications.

420—**Statistics and Probability.** 3-4-0-**X.** Prerequisite: MAT 341. Permutations, combinations, binomial and multinomial theorems, induction, graphic methods, basic statistical concepts.

421—**Number Theory.** 3-4-0-**W,Su.** Prerequisite: MAT 341. Induction, well-ordering, division algorithm, Euclidean algorithm, Fundamental Theorem of arithmetic, number theoretic functions, congruences.

423—**Modern Algebra I.** 3-4-0-**F,S.** Prerequisite: MAT 341. Development of the integers, rational, real and complex numbers based on properties of the natural numbers.

424—**Modern Algebra II.** 3-4-0-**W.** Prerequisite: MAT 423. Subgroups, normal subgroups, quotient groups, permutation groups, homomorphisms and automorphisms of groups, Cayley's theorem.

425—**Fourier Series.** 3-4-0-**X.** Prerequisites: MAT 326 and MAT 405. Orthogonal functions, Fourier series, convergence and applications.

426—**Linear Algebra II.** 3-4-0-**F,S.** Prerequisite: MAT 326. Determinants, polynomials, complex numbers, single linear transformations, orthogonal, unitary and symmetric linear transformations.

430—**Introduction to Applied Mathematics.** 3-4-0-**X.** Prerequisites: MAT 326, MAT 405, CSS 240. Applications of ordinary and partial differential equations to dynamical and electrical systems, heat transfer and diffusion problems.

435—**Laplace Transform.** 3-4-0-**X.** Corequisite: MAT 405. Transforms, inverse transforms, convolution theorem, differentiation and integration of transforms, applications to differential equations.

436—**Theory of Functions of a Complex Variable I.** 3-4-0-**W,S.** Prerequisite: MAT 379. Complex numbers and functions, limits, continuity, differentiation, analytic functions, branches, contour integration, series.

441—**Advanced Calculus I.** 3-4-0-**F.** Prerequisites: MAT 379 and MAT 341. Point set theory, sequences, continuity, uniform continuity, limits, mean value theorems, L'Hospital's rule.

442—**Advanced Calculus II.** 3-4-0-**W.** Prerequisite: MAT 441. Riemann integration, Taylor's theorem, improper integrals, infinite series, uniform convergence.

443—**Advanced Calculus III.** 3-4-0-**S.** Prerequisite: MAT 442. Directional derivatives, partial derivatives, differentials, inverse and implicit functions.

460—**Numerical Analysis I.** 3-4-0-**X.** Prerequisites: MAT 326, MAT 379, CSS 240. Methods of solving equations and systems of equations, error analysis, difference equations.

461—**Numerical Analysis II.** 3-4-0-**X.** Prerequisites: MAT 405, MAT 460, CSS 340. Interpolating polynomial, numerical differentiation and integration, numerical solutions of differential equations, round off error.

470—**Geometry.** 3-4-0-**F,S.** Prerequisites: Secondary school geometry and MAT 341. Modern Euclidean geometry, non-Euclidean geometries, historical topics.

473—**Metric Spaces.** 3-4-0-**X.** Prerequisite: MAT 341. Continuity, Hausdorff and countability axioms, products, Euclidean spaces, connectedness, compactness, Heine-Borel and Bolzano-Weierstrass theorems.

475—**General Topology I.** 3-4-0-**X.** Prerequisites: MAT 341 and MAT 378. General topological spaces, bases and subbases, continuity.

476—**General Topology II.** 3-4-0-**X.** Prerequisite: MAT 475. Connectedness, separation axioms, countability axioms, compactness, metrizability.

494—**Undergraduate Mathematics Seminars I, II.** 1-1-0-**X.** Prerequisite: Consent of instructor. Topics of current interest.

MEDICAL TECHNOLOGY (MTC-354)

101—**Introduction to Medical Technology.** 1-2-0-**F,S.** An introduction for freshmen and transfer students to the aims, objectives, and requirements for a career in medical technology.

400—**Orientation and Ethics.** 2-0-**F,S.** An introductory period designed to acquaint the student with professional ethics pertaining to the laboratory as well as his role in the field of health services.

401—**Urinalysis.** 1-0-0-**W,Su.** Analysis of the physical, chemical, and microscopic examination of urine with emphasis on understanding the kidney function in the diseased state.

402—**Clinical Bacteriology.** 4-0-0-**W,Su.** Laboratory methods of isolation, identification, and antimicrobial sensitivity testing of pathogenic bacteria in their relation to disease.

403—**Clinical Mycology.** 1-0-0-**W,Su.** The study of pathogenic fungi. Emphasis is placed on laboratory methods of isolation and identification.

404—**Clinical Virology.** 1-0-0-**W,Su.** The study of pathogenic viruses. Emphasis is placed on laboratory methods of isolation and identification of these etiologic agents of disease.

405—**Clinical Parasitology I.** 1-0-0-**W,Su.** A lecture and laboratory course on the classification and identification of parasites of pathologic importance to man.

406—**Hematology I.** 6-0-0-**W,Su.** The study of blood cells and their abnormalities with emphasis on procedures of laboratory examination.

407—**Clinical Serology I.** 1-0-0-**F,S.** An introduction to serologic testing, theory, and practical experience involving antigen-antibody reactions in relation to disease in man.

408—**Blood Bank I.** 3-0-0-**F,S.** The theory and techniques of processing blood for transfusion purposes.

409—**Clinical Chemistry I.** 7-0-0-**F,S.** The qualitative and quantitative chemical analysis of blood, urine, cerebrospinal fluid, and other body fluids.

410—**Clinical Isotope Methodology.** 1-0-0-**F,S.** An introduction to the handling and use of radioactive materials as they are used in the clinical laboratory.

411—**Cytogenetics.** 1-0-0-**F,S.** Karyotyping, dermatoglyphic patterns, and other techniques used in medical cytogenetics.

412—**Introduction to Pathology.** 1-0-0-**F,S.** Introduction to the physical and chemical alterations which take place in the human body in the diseased state.

451—**Blood Collection and Urinalysis.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

452—**Clinical Microbiology.** 4-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

455—**Clinical Parasitology II.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

456—**Hematology II.** 5-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

457—**Clinical Serology II.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

458—**Blood Bank II.** 4-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

459—**Clinical Chemistry II.** 7-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

492—**Special Problems in Medical Technology I, II, III, IV.** 2-8 hrs. arr. **Q.** Assignment of a specific clinical problem in medical technology under faculty direction.

MICROBIOLOGY (MIC-310)

101—**General Microbiology.** 3-2-4-**Q.** Introduction to basic characteristics of microorganisms.

301—**Advanced General Microbiology.** 3-2-4-**Q.** Prerequisites: MIC 101 and CHE 101. Current concepts in microbiology. Laboratory devoted to advanced techniques.

401—**Microorganisms in Health and Disease I.** 3-4-0-**F,Su.** Course not designed for majors in the College of Science and Technology. A comprehensive survey of the bacteria, viruses, rickettsiae, chlamydiae, yeasts, molds, protozoa, and other human parasites.

402—**Microorganisms in Health and Disease II.** 3-4-0-**W,Su.** Prerequisite: MIC 401. Course not designed for majors in the College of Science and Technology. A study of immunology, serology, and pathogenic microorganisms.

405—**An Introduction to Clinical Instrumentation.** 3-2-4-**W,S,Su.** Instrumental procedures commonly encountered in modern medical technology.

408—**Advanced Microbiological Techniques.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Special emphasis is placed on microbiological techniques beyond the scope of MIC 301.

411—**Pathogenic Microbiology.** 3-2-4-**F,Su.** Prerequisite: MIC 301. Schemes for isolation and identification of major groups of disease producing microorganisms.

412—**Advanced Pathogenic Microbiology.** 3-2-4-**W,Su.** Prerequisite: MIC 411. Continuation of MIC 411 on an advanced level; schemes for isolation and identification of major groups of disease producing organisms.

421—**Virology and Tissue Culture.** 3-2-4-**X.** Prerequisites: MIC 301. Survey of viruses and viral classification, including viral diseases, involving tissue culture techniques as applied to virology.

441—**Immunology and Serology.** 3-2-4-**S.** Prerequisite: MIC 412. Studies of infection, resistance, types of immunity, hypersensitivity, and major techniques of diagnostic immunological reactions.

455—**Microbial Physiology.** 3-4-0-**X.** Prerequisite: MIC 301. Studies of the microorganisms response to the environment by means of adaptive control mechanisms.

461—**Food Microbiology.** 3-2-4-**X.** Prerequisite: MIC 301. Microorganisms affiliated with the preparation, spoilage, pathogenicity, and sanitation of foods and food products.

462—**Dairy Microbiology.** 3-2-4-**X.** Prerequisite: MIC 301. The preservation, fermentation, and spoilage of milk and dairy products.

471—**Microbiology of Water and Sewage.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Control of pure water supply; sources and types of pollution and control of sewage disposal.

481—**Soil Microbiology.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Study of soil microflora, emphasis on nitrogen-carbon cycle of environment.

492—**Microbiological Problems, I, II, III.** 2-6 hrs. arr. **X.** Given only by special arrangement. A course in special techniques designed for majors with a need for certain basic microbiological techniques as tools for future research.

MILITARY SCIENCE (MS-276)

Basic Military Science

111—**Fundamentals of Leadership and Management I.** 1-1-1-**F,X.** An introduction to individual weapons, rifle marksmanship, leadership, and the United States Defense Establishment.

211—**Fundamentals of Leadership and Management II.** 1-1-1-**W.** The fundamentals and techniques of leadership and small unit tactics. Command, control, and leadership aspects are emphasized.

212—**Fundamentals of Leadership and Management III.** 1-1-1-**S.** A study of the basic skills necessary for proficient land navigation. A one-day voluntary practical exercise is included.

Advanced Military Science

301—**Basic Problems in Small Unit Leadership.** 3-3-1-**F.** Study of the functional approach to small unit leadership, branches of the Army, and internal defense and development aspects of a counter-insurgency.

302—**Small Unit Tactics and Communications.** 3-3-1-**W.** Study of the tactical employment concepts at small unit level and battalion communications procedures and equipment.

303—**Principles of Military Instruction.** 3-3-1-**S.** Course designed to familiarize the student with the principles of military instruction. A twenty (20) minute student exercise is included.

401—**Military Team I.** 2-3-1-**F.** A study of combat operations, military teams, impact of staff procedures on military operations, and role of the officer in logistical planning.

402—**Military Team II and Leadership and Management I.** 2-3-1-**W.** A continuation of MS 401. Introduction to management aspects of military justice and administration at the junior officer level.

403—**Leadership and Management II.** 2-3-1-**S.** Continuation of MS 402. Study of the military aspects of world affairs, counter-insurgency operations, and obligations and responsibilities of an officer.

MUSIC (MUS-675)

100—**Introduction of Music.** 3-4-0-**F,Su.** An introductory course in the fundamentals of music theory. Open to all University students. May not be applied toward a degree in music.

101—**Music Theory.** 3-4-0-**F,W.** Prerequisite: A knowledge of music notation. Scales, intervals, and part-writing, using triads, the dominant seventh chord, non-harmonic tones, modulation, dictation, and sight-singing.

102—**Music Theory.** 3-4-0-**W,S.** Prerequisite: MUS 101. A continuation of MUS 101.

131—**Survey of Music Literature.** 3-4-0-**Q.** An introductory course surveying the major areas of music history style periods.

165—**The Enjoyment of Music.** 3-4-0-**Q.** A study of the basic elements of music necessary for intelligent listening and appreciation. This course may not be applied toward a Bachelor of Music or Bachelor of Music Education degree, or a music minor.

201—**Advanced Music Theory.** 3-4-0-**F,S.** Prerequisites: MUS 101, 102. Part-writing, including secondary seventh chords, borrowed chords, altered chords, foreign modulation, dictation, and sightsinging.

202—**Advanced Music Theory.** 3-4-0-**F,W.** Prerequisites: MUS 101, 102, 201. A continuation of MUS 201.

231—**History of Music.** 2-2-0-**F.** Prerequisites: MUS 131 and MUS 101, 102. Music in Western civilization traced from its primitive sources to the present.

232—**History of Music.** 2-2-0-**W.** Prerequisites: MUS 131, 231 and MUS 101, 102. A continuation of MUS 231.

233—**History of Music.** 2-2-0-**S.** Prerequisites: MUS 131, 231, 232 and MUS 101, 102. A continuation of MUS 232.

241—**Diction.** 2-2-0-**S.** Prerequisite: Freshman Voice. The correct use and pronunciation of English, French, Italian, and German as applied to vocal literature.

301—**Twentieth Century Harmony.** 3-4-0-**Q.** Prerequisites: MUS 101, 102, 201, 202. An investigation into the various styles and harmonic elements of 20th Century music coupled with practical applications.

302—**Form and Analysis.** 3-4-0-**Q.** Prerequisites: MUS 201, 202, 301. Music of various periods is analyzed formally, harmonically, and contrapuntally.

311—**Composition.** 2-2-0-**F,S.** Prerequisites: MUS 301, 302. Composition in the smaller forms. Contemporary and stylistic techniques. Steps in the preparation of music for publication are included.

321—**Counterpoint.** 2-2-0-**F.** Prerequisites: MUS 201, 202. Two, three, and four-voice contrapuntal writing in the style of Palestrina.

322—**Counterpoint.** 2-2-0-**W.** Prerequisites: MUS 201, 202. Two, three, and four-voice contrapuntal writing in the style of Bach.

351—**History of Church Music.** 3-4-0-**F.** History of Christian Church music, with emphasis on the use of literature.

360—**Stylistic Developments in Jazz.** 3-4-0-**W.** Study of the development of jazz idioms. Includes elements of jazz history leading to study of more complex idioms.

367—**Improvisation.** 1-1-1-**F.** Study and performance of jazz improvisation.

375—**Techniques of Scoring for Jazz Ensembles.** 2-2-0-**F.** Study in composing and arranging music for jazz ensembles.

401—**Instrumentation.** 3-4-0-**Q.** Prerequisites: MUS 201, 202. A study of the instruments of the band and orchestra. Scoring for small instrumental ensembles.

420—**Acoustics.** 3-4-0-**X.** An investigation into the nature and perception of musical sounds. Problems of tone production, intonation, and allied musical aspects.

431—**History of Opera.** 3-4-0-**S.** The history of the musical theatre from Greek drama to the present. Open to non-music majors with consent of instructor.

432—**American Music.** 3-4-0-**Su.** A study of the development of music in North America. Open to non-music majors with consent of instructor.

433—**20th Century Music.** 3-4-0-**S.** Examination of musical trends since Debussy and Mahler. Open to non-music majors with consent of instructor.

434—**Ancient, Medieval, and Renaissance Music.** 3-4-0-**Su.** A study of

the rise of music in the ancient world, the beginning of western music, and of polyphony. Open to non-music majors with consent of instructor.

435—**Baroque Music.** 3-4-0-**F,** 1975. The development of musical styles and forms from Monteverdi through J. S. Bach. Open to non-music majors with the consent of instructor.

436—**18th Century Music.** 3-4-0-**F.** The development of classical styles and forms, emphasis on **style gallant, Empfindsamer Stil,** and the Viennese classicists. Open to non-music majors with consent of instructor.

437—**19th Century Music.** 3-4-0-**W.** The development of musical romanticism, emphasis on the expression of classical forms and the appearance of new stylistic concepts. Open to non-music majors with consent of instructor.

440—**Vocal Literature.** 2-2-0-**F,Su**. Required of all senior voice majors.

441—**Vocal Literature.** 2-2-0-**W,Su.** A continuation of MUS 440.

442—**Piano Literature.** 2-2-0-**W,Su.** Required of all senior piano majors.

443—**Piano Literature.** 2-2-0-**S,Su.** A continuation of MUS 442.

444—**Organ Literature.** 2-2-0-**F,Su.** Required of all organ majors.

445—**Organ Literature.** 2-2-0-**W,Su.** A continuation of MUS 444.

446—**Instrumental Literature.** 2-2-0-**W,Su.** Required of all senior instrumental majors.

447—**Instrumental Literature.** 2-2-0-**S,Su.** A continuation of MUS 446.

448—**Choral Literature.** 2-2-0-**F,Su.** A survey of accompanied and unaccompanied choral music from Gregorian chant through Handel.

449—**Choral Literature.** 2-2-0-**W,Su.** A continuation of MUS 448.

450—**Symphonic Literature.** 3-4-0-**F.** History and literature of the symphony orchestra from 1600 to the present. Open to non-music majors with consent of instructor.

451—**Chamber Music Literature.** 3-4-0-**W.** A survey of music for small instrumental ensembles. Open to non-music majors with consent of instructor.

455—**Arranging for the Marching Band.** 2-2-0-**F.** Designed to provide the beginning arranger with the essential techniques of scoring for the outdoor band.

456—**Choral Arranging.** 2-2-0-**W.** Basic concepts and techniques of scoring for voices, with emphasis on arranging rather than on original compositions for chorus.

459—**Church Music Colloquium.** 3-4-0-**S.** Philosophies of church music as well as the administration, liturgies, and related materials will be studied.

462—**Hymnology.** 3-4-0-**W.** History of the Christian hymn from its root to present-day form.

467—**Improvisation.** 1-1-1-**W.** A continuation of MUS 367.

468—**Improvisation.** 1-1-1-**S.** A continuation of MUS 467.

470—**Organization and Management of Jazz Ensembles.** 3-4-0-**S,** 1975. Studies in general management of commercial and academically oriented jazz groups.

475—**Advanced Techniques of Scoring for Jazz Ensembles.** 2-2-0-**W.** A continuation of MUS 375.

476—**Advanced Techniques of Scoring for Jazz Ensembles.** 2-2-0-**S.** A continuation of MUS 475.

MUSIC EDUCATION (MED-680)

221—**String Class.** 1-1-0-**F,W,Su.** Practical class instruction on violin, viola, cello, and bass; problems of beginning students; material for public school classes.

222—**String Class.** 1-1-0-**W,S,Su.** A continuation of MED 221.

301—**Voice Class.** 2-2-0-**Q.** Designed to give the instrumental major a general knowledge of vocal and choral techniques.

311—**Elementary Music Methods.** 3-4-0-**F,W.** Deals with music education programs for the elementary student. Emphasis is placed on the total curriculum.

312—**Secondary Music Methods.** 3-4-0-**W,S.** Prerequisite: MED 311. Detailed consideration of the secondary music program. Special attention is given to the development of a balanced curriculum.

321—**String Methods.** 1-1-0-**F.** Instruction on violin, viola, cello, and bass for students not following the curriculum in instrumental music education.

322—**Woodwind Methods.** 1-1-0-**W.** Instruction on clarinet, flute, oboe, bassoon for students not following the curriculum in instrumental music education.

323—**Brass Methods.** 1-1-0-**S.** Instruction on trumpet, horn, baritone, trombone, and tuba for students not following the curriculum in instrumental music education.

331—**Conducting.** 1-1-0-**F,Su.** Prerequisites: MUS 201, 202, or consent of instructor. Techniques of choral and instrumental conducting.

332—**Conducting.** 1-1-0-**W,Su.** A continuation of MED 331.

333—**Conducting.** 1-1-0-**S,Su.** A continuation of MED 332.

361—**Music for Elementary Teachers I.** 3-4-0-**Q.** Designed to provide students with a basic knowledge of notation, singing, and the use of the autoharp and piano. May not be applied to a Bachelor of Music or a Bachelor of Music Education degree.

362—**Music for Elementary Teachers II.** 3-4-0-**Q.** Prerequisite MED 361. Application of the fundamental skills of MED 361 in the study and selection of music materials and methods of presentation. May not be applied toward a Bachelor of Music or a Bachelor of Music Education degree.

382—**Recreational Music.** 3-4-0-**W.** Prerequisite: MED 361 or consent of instructor. Materials and techniques useful in developing recreational music programs including vocal and instrumental ensembles.

390—**Piano Workshop.** 2-2-0-**Su.** Designed to meet the needs of the piano teacher, including a survey of standard materials and a presentation of modern teaching methods.

391—**Instrumental Workshop. W,Su.** A survey and analysis of problems relating to instrumental music education through lecture, performance, and discussion.

392—**Choral Workshop.** 2-2-0-**W,Su.** An examination, study, and analysis of choral techniques and procedures.

393—**Elementary Music Workshop.** 2-2-0-**Su.** Intensive examination of current problems, trends, and materials in the field of elementary music education.

411—**Choral Methods and Curriculum Problems.** 3-3-0-**W,S,Su.** Organization and administration of choral activities in secondary schools.

412—**Instrumental Methods and Curriculum Problems.** 3-4-0-**W,S, Su.** Techniques of developing successful marching/concert bands and orchestras. Emphasis on current trends in music education.

421—**Woodwind Class.** 1-1-0-**F,W,Su.** A study of basic techniques in the pedagogy of all major woodwind instruments. Problems involved in teaching beginners.

422—**Woodwind Class.** 1-1-0-**W,S,Su.** A continuation of MED 421.

424—**Instrumental Repair.** 3-4-0-**F,W,Su.**
Topic 1. Organ Design and Repair. **F.**
Topic 2. Piano Tuning. **W,Su.**
Topic 3. String and Wind Instrument Repair. **Su.**

425—**Brass Class** 1-1-0-**F,W,Su.** A study of basic techniques in the pedagogy of all brass instruments. Emphasis on problems involved in teaching beginners.

426—**Brass Class.** 1-1-0-**W,S,Su.** A continuation of MED 425.

427—**Percussion Class.** 1-1-0-**F,W,Su.** A review of percussion texts, techniques, and pedagogy of snare drum, bass drum, timpani, cymbals, mallet keyboards instruments. Percussion majors may substitute a brass, string, or woodwind minor instrument for MED 427.

428—**Percussion Class.** 1-1-0-**W,S,Su.** A continuation of MED 427.

440—**Music Education in the Elementary Schools.** 3-3-0-**S.** Prerequisites: MED 311, 312. An in-depth course which examines current techniques and methods of music programs in upper and lower elementary grades.

450—**Vocal Pedagogy.** 2-2-0-**F.** Comparison of pedagogical concepts; study of vocal production problems and anatomy of the vocal tract.

451—**Vocal Pedagogy.** 2-2-0-**W.** A continuation of MED 450.

452—**Piano Pedagogy.** 2-2-0-**F.** Modern methods of teaching; lectures, observation of private and class lessons; teaching piano to adults.

453—**Piano Pedagogy.** 2-2-0-**W.** A continuation of MED 452.

454—**Organ Pedagogy.** 2-2-0-**F.** Required of all senior organ majors.

455—**Organ Pedagogy.** 2-2-0-**W.** A continuation of MED 454.

456—**String Pedagogy.** 2-2-0-**F.** Required of all senior string majors.

457—**String Pedagogy.** 2-2-0-**W.** A continuation of MED 456.

458—**Wind Pedagogy.** 2-2-0-**F.** Required of all senior wind majors.

459—**Wind Pedagogy.** 2-2-0-**W.** A continuation of MED 458.

490—**Piano Workshop.** 2-2-0-**Su.** A continuation of MED 390.

491—**Instrumental Workshop.** 2-2-0-**W,Su.** A continuation of MED 391.

492—**Choral Workshop.** 2-2-0-**W,Su.** A continuation of MED 392.

493—**Elementary Music Workshop.** 2-2-0-**Su.** A continuation of MED 393.

NURSING (NSG—070)

120—**Social Focus in Nursing.** 2-1-2-**F**. Introduction to therapeutic self-care, high-level wellness concepts, and helping relationships.

121—**Socio-Cultural Processes in Nursing.** 2-1-2-**W**. Normal social and cultural self-care needs.

122—**Bio-Physio Processes in Nursing.** 2-1-2-**S**. Physical self-care needs and nursing skills.

150—**Orientation to Nursing Concepts and Skills.** 6-3-6-**F,Su**. Taken in lieu of NSG 120, 121, and 122 with permission of instructor.

301—**Nursing Process in the Health Continuum.** 3-1-6-**F,W**. Patho-physiological and psychosocial dimensions of designing and implementing systems of nursing assistance for individuals and their families.

302—**Introduction to Pathology of the Physiological Systems.** 2-2-0-**W,S**. Emphasizes changes in body systems manifesting disturbed physiology.

303—**Systems of Nursing in Health Deviations.** 3-1-6-**W,S**. Continuation of NSG 301.

305—**Nursing in the Promotion of Therapeutic Self-Care and High-Level Wellness.** 5-2-9-**S,Su**. Continuation of NSG 303.

306—**Introduction to Pharmacology.** 2-2-0-**F,W**. Focuses on classification and administration of pharmacologic agents.

410—**Maternal-Child Nursing.** 6-3-9-**F,W**. Designing and implementing complex systems of nursing assistance for expectant and early child-rearing family.

420—**Nursing in Illness-Wellness Continuum.** 6-2-12-**W,S**. Designing and implementing complex systems of nursing assistance for physically ill persons and their families.

430—**Nursing to Promote Mental Health.** 3-1-6-**F,W**. Designing and implementing complex systems of nursing assistance for persons and families with behavioral disorders.

431—**Introduction to Personality Development in Psychopathology.** 2-2-0-**X**.

432—**Community Mental Health Nursing.** 6-3-9-**X**.

440—**Community Health Nursing.** 3-1-6-**W,S**. Designing and implementing complex systems of nursing assistance for families in the community.

442—**Public Health Science.** 2-2-0-**W,S**.

445—**Public Health Nursing.** 6-3-9-**X**.

450—**Guided Study in Nursing.** 9-4-26-**S,Su**. A cooperative education program which provides leadership experiences.

451—**Nursing Leadership and Management.** 3-3-0-**X**. Elective.

452—**Teaching in Nursing.** 3-3-0-**X**. Elective.

492—**Directed Study in Nursing.** 1-6 hrs. arr. **X**.

OLLIPHANT HONORS CENTER (OHC—000)

101—**The Cultural Environment.** 1-1-0-**F**. A brief introduction to major humanistic accomplishments of the Western World.

102—**The Scientific Environment.** 1-1-0-**W**. A survey of the impact of science.

103—**The Social Environment.** 1-1-0-S. An interpretation of humanism in the Western heritage.

111—**Honors Colloquium.** 3-4-0-F.

112—**Honors Colloquium.** 3-4-0-W.

113—**Honors Colloquium.** 3-4-0-S.

201—**Honors Colloquium.** 1-0-0-F,X.

202—**Honors Colloquium.** 1-0-0-W,X.

210—**Man's Precarious Habitat.** 3-4-0-F. A course designed to bring about an awareness of the physical, biological, social, political, and economic, problems associated with cleaning up the polluted environment.

301—**Honors Colloquium.** 1-0-0-F,S.

302—**Honors Colloquium.** 1-0-0-W,X.

310—**Greek Culture and Literature in Translation.** 3-4-0-F. A survey of Greek culture and civilization from the time of Homer to the time of Plato.

311—**Directed Study.** 3-0-0-Q.

312—**Directed Study.** 3-0-0-Q.

313—**Latin Culture and Literature in Translation.** 3-4-0-S. A survey of Latin culture and civilization from the early beginnings of Rome to Constantine.

314—**History of Music.** 3-4-0-W. An investigation of major developments in music from classical Greece to the modern age.

315—**History of Art.** 3-4-0-S. An investigation of the visual arts in the history of western man.

380—**History of Philosophy.** 3-4-0-W. An historically oriented introduction to the major schools of philosophy from the Pre-Socratics to Kant.

382—**Introduction to Anthropology.** 3-4-0-S. A comprehensive and in-depth introduction to each of the major fields of anthropology.

401—**Honors Colloquium.** 1-0-0-F,X.

402—**Honors Colloquium.** 1-0-0-W,X.

410—**Readings in Western Literature I.** 3-4-0-F. Selected translations of masterpieces of early world literature from the classical to medieval periods.

411—**Directed Study.** 3-0-0-Q.

412—**Readings in Western Literature II.** 3-4-0-W. An analysis of selected European literature from 1500 to the present.

492—**Senior Honors Project.** 3-0-0-Q.

PHILOSOPHY (PHI—284)

151—**Introduction to Philosophy.** 3-4-0-Q. An introduction to the methods and major themes of philosophy.

251—**Classical Philosophy.** 3-4-0-W. An outline survey of Greek, Roman, and medieval philosophical thought.

252—**Modern Philosophy.** 3-4-0-S. The development of modern European philosophy from the 16th century to the present.

253—**Introduction to Logic.** 3-4-0-**Q**. An introduction to induction, syllogism fallacies, scientific method, and symbolic logic.

352—**Oriental Philosophy.** 3-4-0-**F**. A survey of the philosophical thought of India and the Far East.

353—**Study of a Major Philosopher.** 3-4-0-**W,S**. May be repeated for credit to a total of nine hours. A detailed examination of a selected philosopher.

354—**Theories of Knowledge.** 3-4-0-**S**. An examination of recent philosophical positions in epistemology, including positivism, pragmatism, realism, and language analysis.

356—**Ethics.** 3-5-0-**W**. The evolution of moral ideas from primitive to modern times.

358—**Philosophy of Law.** 3-4-0-**S**. An inquiry into selected theories concerning the nature of law.

451—**Political Philosophy.** 3-4-0-**S**. The major schools of political philosophy from classical to contemporary times.

454—**Philosophical Systems.** 3-4-0-**F**. A more advanced study of rationalism, empiricism, idealism, existentialism, phenomenology, and analytical philosophy.

456—**Philosophy of Science.** 3-4-0-**F**. The conditions and status of knowledge, perception, measurement, hypothesis, and causality.

457—**Aesthetics.** 3-4-0-**W**. An analysis of theories of art and beauty from Plato to the present.

458—**Symbolic Logic.** 3-4-0-**F**, 1975. The basic theory and operations of the sentential calculus, quantification, and the logic of relations.

492—**Special Problems.** 3-4-0-**X**. A problem study to be approved by the department chairman.

PHYSICAL EDUCATION (PE—730)

119—**Beginning Volleyball.** 1-2-0-**Q**.

130—**Four Wall Sports.** 1-2-0-**Q**.

131—**Fencing.** 1-2-0-**Q**.

132—**Beginning Badminton.** 1-2-0-**Q**.

133—**Beginning Archery.** 1-2-0-**Q**.

134—**Beginning Golf.** 1-2-0-**Q**.

141—**Beginning Tennis.** 1-2-0-**Q**.

146—**Developmental Skills.** 1-2-0-**F**.

147—**Developmental Skills.** 1-2-0-**W**.

148—**Developmental Skills.** 1-2-0-**S**.

150—**Beginning Gymnastics.** 1-2-0-**Q**.

160—**Beginning Swimming.** 1-2-0-**Q**.

181—**Beginning Social Dance.** 1-2-0-**Q**.

184—**Beginning Square Dance.** 1-2-0-**Q**.

185—**Beginning Folk, Contra, and Round Dances.** 1-2-0-**Q**.

188—**Beginning Modern Dance.** 1-2-0-**Q**.

218—**Officiating Techniques in Women's Sports.** 3-4-0-**W**.

220—**Introduction to Health and Physical Education.** 3-4-0-**F**. Survey of the areas of health and physical education.

222—**A Survey of the History and Philosophies of Physical Education.** 3-4-0-**W.**

284—**Creative Rhythms for the Elementary School Child.** 2-2-0-**W.**

301—**Kinesiology.** 3-4-0-**Q.** Prerequisite: HTH 315. Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of muscles in body mechanics.

303—**Evaluation in Health and Physical Education.** 3-4-0-**W,S.** Administration and interpretation of tests in health, physical fitness, and skills.

314—**Instructional Techniques in Team Sports.** 3-4-0-**F,S.**

320—**Preschool and Primary School Physical Education.** 3-4-0-**F,S.** An introduction to philosophy, objectives, methods and curriculum content.

321—**Elementary and Middle School Physical Education.** 3-4-0-**W, Su.** Philosophy, objectives, methods, and curriculum.

323—**Physical Education for Men in Secondary Schools.** 3-4-0-**F,S.** Developing personal skills in a variety of sports.

324—**Physical Education for Women in the Secondary School.** 3-4-0-**F,S.** Developing personal skills in a variety of sports.

326—**Instructional Techniques in Individual and Dual Sports.** 3-4-0-**F,S.**

334—**Golf.** 1-2-0-**Q.**

341—**Tennis.** 1-2-0-**Q.**

350—**Techniques of Teaching Stunts, Tumbling and Apparatus.** 2-2-0-**Su.**

360—**Theory of Teaching Swimming and Diving.** 2-2-0-**Su.** Organization and administration of the community swimming program.

401—**Corrective, Adaptive, and Developmental Physical Education.** 3-4-0-**W,Su.** Recognition of, and corrective exercises for functional abnormalities.

402—**Physiology of Exercise.** 3-4-0-**Q.** Prerequisite: HTH 315. A study of the physiological changes which occur in the body during muscular activity.

403—**Fundamental Motor Patterns.** 3-4-0-**F,S.** An analysis of the fundamental motor patterns developed during early childhood.

404—**Motor Development.** 3-4-0-**F,S.** A study of the motor aspects of the total human growth and development process.

420—**Practicum in Physical Education.** 1-2-0-**Q.** Experiences in the various phases of the physical education program.

421—**Sports Laboratory.** 2-2-0-**Su.**

422—**Sports Laboratory.** 2-2-0-**Su.**

424—**Seminar in Elementary Physical Education.** 3-4-0-**F,S.** Prerequisites: 320 or 321.

426—**Organization and Administration of Health and Physical Education.** 3-4-0-**F,S.** The theory and procedure necessary to the development and administration of a sound physical education program.

450—**Movement Experiences for Young Children.** 2-2-0-**W.**

PHYSICS (PHY—360)

101—**General Physics.** 3-3-3-**F,Su**. Prerequisite: MAT 103. A traditional course in general college physics intended for liberal arts and pre-medical students.

102—**General Physics.** 3-3-3-**W,Su**. Prerequisite: PHY 101. A continuation of PHY 101.

103—**General Physics.** 3-3-3-**S,Su**. Prerequisite: PHY 102. A continuation of PHY 102.

201—**General Physics with Calculus.** 3-3-3-**F**. Corequisite: Calculus. A more rigorous course in general physics recommended for physics majors. This course is required of engineering students.

202—**General Physics with Calculus.** 3-3-3-**W**. Prerequisite: PHY 201. A continuation of PHY 201.

203—**General Physics with Calculus.** 3-3-3-**S**. Prerequisite: PHY 202. A continuation of PHY 202.

255—**Applied Fluid Mechanics.** 3-3-0-**X**. Prerequisite: Introductory Physics. The principles of fluid mechanics and the practical application of their principles in engineering and technology.

290—**Selected Topics I.** 1-2-0-**F**. Prerequisite: PHY 103. Corequisite: Calculus. Physics topics in mechanics and electricity and magnetism.

291—**Selected Topics II.** 1-2-0-**W**. Prerequisite: PHY 290. A continuation of PHY 290.

327—**Electronics.** 3-3-3-**X**. Prerequisite: PHY 103 or 203. Fundamentals of vacuum and semiconductor devices with applications to scientific instrumentation.

328—**Electronics.** 3-3-3-**X**. Prerequisite: PHY 327. A continuation of PHY 327.

331—**Thermodynamics.** 3-3-3-**X**. Prerequisite: PHY 103 or 203. Temperature, thermodynamic systems, laws of thermodynamics, entropy, and the physics of very low temperatures.

332—**Thermodynamics.** 3-3-3-**X**. Prerequisite: PHY 331. A continuation of PHY 331.

341—**Geometrical Optics.** 3-3-3-**S**. Prerequisite: PHY 103 or 203. Rays, refractive and reflective surfaces, lens design, stops and optical instruments.

342—**Physical Optics.** 3-4-0-**X**. Prerequisites: PHY 341 and calculus. Huygen's Principle, interference, diffraction, polarization and electromagnetic theory of light.

350—**Mechanics.** 3-4-0-**F**. Prerequisites: PHY 103 or 203 and calculus. Mathematical treatment of the dynamics of particles and rigid bodies, wave motion and vibration.

351—**Mechanics.** 3-4-0-**W**. Prerequisite: PHY 350. A continuation of PHY 350.

361—**Physics of the Atom I.** 3-3-3-**F**. Prerequisite: PHY 103 or 203. Survey of atomic particles, radiation and x-rays, the hydrogen atom, theory of optical spectra.

362—**Physics of the Atom II.** 3-3-3-**W**. Prerequisite: PHY 361. Natural radioactivity, fundamental particles, nuclear fission, radioactive production of isotopes and new elements.

392—**Physics Special Problems.** 1-3 hrs. arr. Prerequisite: Permis-

sion. Theoretical and laboratory problems limited to junior and senior students.

421—**Electricity and Magnetism.** 3-4-0-**X**. Prerequisites: PHY 103 or 203 and calculus. Vector analysis, electrostatics, magnetostatics and electromagnetic fields.

422—**Electricity and Magnetism.** 3-4-0-**X**. Prerequisite: PHY 421. A continuation of PHY 421.

423—**Electrical Measurements Laboratory.** 1-0-3-**X**. Corequisite: PHY 421. Laboratory experiments in electricity and magnetism.

424—**Electrical Measurements Laboratory.** 1-0-3-**X**. Corequisite: PHY 422. Laboratory experiments in electricity and magnetism.

442—**The Physics of Waves.** 3-4-0-**X**. Prerequisite: Permission. A treatment of vibrations and waves in physical systems.

461—**Modern Physics.** 3-4-0-**F**. Prerequisite: PHY 362 or equivalent. Relativity, quantum theory, spectroscopy, and atomic and nuclear structure.

462—**Modern Physics.** 3-4-0-**W**. Prerequisite: PHY 461. A continuation of PHY 461.

463—**Modern Physics.** 3-4-0-**S**. Prerequisite: PHY 462. A continuation of PHY 462.

464—**Fundamentals of Solid State Physics.** 3-3-3-**X**. Prerequisite: Permission. Study of solids as electromagnetic wave media.

465—**Nuclear Physics.** 3-3-3-**S**. Prerequisite: Permission. Nuclear binding forces, chain reactions, nuclear reactors and radiation shielding.

466—**High Vacuum Technique.** 3-4-0-**F**. Prerequisite: Permission. Design of vacuum instruments. Study of mechanical, diffusion, ion, sorption, and getter pumps.

467—**Analysis by Mass Spectrometry.** 3-4-0-**W**. Prerequisite: Permission. Interpretation of mass spectra. Sample introduction and mass analysis.

477—**Meteorology.** 3-4-0-**X**. Prerequisites: PHY 103, CHE 103, or equivalent. General circulation, vertical structure, radiation heating and cooling.

485—**History and Literature of Physics I.** 3-4-0-**X**. Prerequisite: PHY 103 or equivalent. A survey of physics from the ancients to Einstein.

486—**History and Literature of Physics II.** 3-4-0-**X**. Prerequisite: PHY 485. A continuation of PHY 485.

499—**Undergraduate Research** 1-6 hrs. arr. **Q**. Prerequisite: Permission. An introduction to the methods of physical research.

POLITICAL SCIENCE (PS—280)

101—**American Government.** 3-4-0-**Q**.

220—**Introduction to Political Science.** 3-4-0-**F**. A basic survey of the general field of study of political science to prepare students for subsequent study in a specific subject and field.

301—**State and County Government.** 3-4-0-**Q**.

302—**Current Problems in Government.** 3-4-0-**X**. A study of current problems before the national, state, and local governments at the time the course is taught.

303—**Race and Politics in the United States.** 3-4-0-**X**. The course will stress the role of Afro-Americans in the American political system.

320—**Introduction to Political Theory.** 3-4-0-**X**. A survey of principal political ideologies in the world today.

330—**United States Foreign Policy.** 3-4-0-**Q**.

331—**Introduction to International Politics.** 3-4-0-**W,Su**.

350—**Latin American Fundamentals.** 3-4-0-**X**. A broad orientation course on Middle and South America and the West Indies.

351—**Introduction to Comparative Government.** 3-4-0-**S**. A classification of selected political systems analysed in the context of different economic and political cultures.

401—**American Political Process.** 3-4-0-**F**. An analysis of the American political system on an advanced level.

402—**Municipal Government.** 3-4-0-**F**.

404—**The Legislative Process.** 3-4-0-**S**.

406—**American Political Parties and Pressure Groups.** 3-4-0-**W,S,Su**.

407—**Mississippi Government.** 3-4-0-**W,Su**.

408—**The Presidency and Congress.** 3-4-0-**W**. A study of the interplay of roles and functions, powers and pressures among the President, the Bureaucracy, and the Congress.

409—**Southern Politics.** 3-4-0-**S**. An examination of the politics and political culture of the southern states.

420—**Political Theory to Locke.** 3-4-0-**F**.

421—**Political Theory Locke to Present.** 3-4-0-**S**.

425—**American Political Theory.** 3-4-0-**W,Su**.

431—**International Organization.** 3-4-0-**X**.

432—**Politics of the Power Blocs.** 3-4-0-**S**. An intensive analysis of the pattern of politics resulting from the formation of the two major power blocs and lesser blocs.

434—**Inter-American Politics.** 3-4-0-**W**. A study of hemisphere relations, with emphasis on the United States and Latin America, bilaterally and multilaterally.

435—**Soviet Foreign Policy.** 3-4-0-**F**.

450—**Governments and Politics of Western Europe.** 3-4-0-**S**.

451—**Soviet Government and Politics.** 3-4-0-**W**.

452—**British Government and Politics.** 3-4-0-**F,Su**.

453—**Middle Eastern Governments and Politics.** 3-4-0-**W**.

454—**Far Eastern Governments and Politics.** 3-4-0-**S**.

455—**Tropical African Governments and Politics.** 3-4-0-**X**.

456—**Latin American Governments and Politics.** 3-4-0-**F,Su**.

458—**Latin American Political and Economic Development.** 3-4-0-**X**.

470—**Public Administration.** 3-4-0-**F,W**.

471—**Public Personnel Administration.** 3-4-0-**F**.

472—**Organization and Management.** 3-4-0-**S**.

473—**Policy Formulation.** 3-4-0-**S**.

480—**United States Constitutional Law.** 3-4-0-**Q**.

481—**The Judicial Process.** 3-4-0-**F,S,Su**.

482—**Comparative Judicial Politics.** 3-4-0-**S**. Prerequisite: PS 480 or PS 481 or consent of instructor.

485—**International Law.** 3-4-0-**W.**

492—**Special Problems.** 1-3 hrs. arr. **Q.**

POLYMER SCIENCE (PSC—370)

301—**Introduction to Polymer Science I.** 3-3-3-**F.** Systematic study of the nature and properties of polymers with the major emphasis centered on those polymers synthesised by step polymerization.

302—**Introduction to Polymer Science II.** 3-3-3-**W.** A continued study of polymer formation techniques, kinetics, and properties with particular emphasis on addition polymerization.

303—**Polymer Preparation and Characterization.** 4-3-6-**S.** A study of copolymerization, stereoregular polymerization, and other methods of synthesising polymers with unique chemical and physical properties.

310—**Technical and Scientific Communication.** 1-1-0-**X.** Training in the preparation of written and oral reports for specific scientific and technical problems.

330—**Structure of Materials.** 3-4-0-**X.** An introduction to the physical character of materials emphasizing the relationship of structure to fundamental composition.

340—**Forensic Science I.** 3-3-3-**X.** An introductory study of the techniques employed in a forensic laboratory.

341—**Forensic Science II.** 3-3-3-**X.** A continuation of PSC 340.

350—**Polymeric Materials I.** 3-4-0-**F.** Introduction to the physical characteristics and identification of polymers compared to other materials.

351—**Polymeric Materials II.** 3-3-3-**W.** Continuation of 350.

352—**Polymeric Materials III.** 3-3-3-**S.** Introduction to the processing and handling of polymers for making consumer products.

360—**Plastics Technology I.** 3-3-3-**F.** Key properties, applications, and costs of commercially available plastics and additives therefor.

361—**Plastics Technology II.** 3-3-3-**W.** ASTM and quality control methods; formulating, compounding, fabricating, finishing, and machining of plastics.

362—**Plastics Technology III.** 3-3-3-**S.** Plastics processing methods —extrusion, molding, forming, coating, and others; die, mold, and screw design.

401—**Polymer Structure.** 3-4-0-**F.** Polymer structure, chain conformation, solution properties, thermodynamics, fractionation, and molecular weight measurement.

402—**High Polymer.** 3-3-3-**W.** A continuation of PSC 401. Instrumental analysis of polymers, morphology, rheology, structure-property relationships.

403—**High Polymer.** 3-3-3-**S.** A continuation of PSC 402. Kinetics of addition, condensation, copolymerization and polymer processing.

430—**Plastics, Ceramics, Composites.** 3-4-0-**X.** A comparative study of the physical property behavior of non-metallic materials in pure form and in combination with emphasis on application performance.

440—**Drug Identification.** 3-4-0-**X.** Lectures, demonstrations and discussions covering all aspects of drug identification, emphasizing those relating to law enforcement. Course not counted toward a polymer science degree.

460—**Physical Properties of Polymers I.** 3-3-3-**X**. Mechanical and electrical properties of polymers as viscoelastic materials emphasizing the effects of time and temperature at constant stress levels.

461—**Physical Properties of Polymers II.** 3-3-3-**X**. Mechanical and electrical properties of polymers as viscoelastic materials emphasizing the effects of time and temperature at variable stress levels.

463—**Senior Research in Plastics.** 3-1-9-**X**. Individual research projects in plastics, dealing with properties, processing products, and industry organization. Final report required.

470—**Surface Coatings I.** 3-3-3-**F**. Study of the physical and chemical properties of the pigments, binders, solvents and additives employed in surface coatings formulations.

471—**Surface Coatings II.** 3-3-3-**W**. Paint formulation, dispersion techniques, surface preparation, paint testing, novel surface coatings, non-polluting application techniques, and surface coatings formulations analysis.

490—**Special Projects in Polymer Science.** 3-1-9-**X**. Seminar and individual research. Prospectus is prepared and research plan is executed with final status report required.

491—**Special Projects in Polymer Science.** 3-1-9-**X**. Seminar and individual research. Prospectus is prepared and research plan is executed with final status report required.

493—**Plastic Seminar.** 2-2-0-**X**. Informal discussion based on literature study conducted by the individual, of topics in, or related to, plastics technology.

PSYCHOLOGY (PSY—175)

110—**General Psychology.** 3-4-0-**Q**. Open to freshmen. An introduction to the scientific study of human behavior and experience.

231—**Mental Hygiene.** 3-4-0-**W**. Prerequisite: PSY 110. A course designed to promote understanding of the problems people face in our society, the diverse ways in which they respond to these problems.

251—**Applied Psychology.** 3-4-0-**Q**. Prerequisite: PSY 110. Application of psychological methods and principles to a number of occupational fields other than education.

310—**Advanced General Psychology.** 3-4-0-**Q**. An advanced course in general psychology covering in greater depth selected topics. Required of all psychology majors.

320—**Experimental Psychology.** 3-2-2-**Q**. Prerequisites: PSY 310 and 360. Introduction to experimental methodology and laboratory apparatus with application to various areas of psychology.

360—**Introduction to Statistics for the Behavioral Sciences.** 3-4-0-**Q**. Probability, central tendency, variability, and correlation. Hypothesis testing with Z, t, chi-square, and F.

375—**Developmental Psychology.** 3-4-0-**W,Su**. A study of the course of growth and development throughout the life span, with emphasis on principles of development. Students who take EPY 370 or 372 should not take this course.

418—**History and Systems of Psychology.** 3-4-0-**F,Su**. Prerequisite: Permission of the instructor. Review of the history of psychology and intensive study of current systems of psychology. Primarily for senior psychology majors.

420—**Sensation and Perception.** 3-4-0-**W**. Prerequisite: PSY 320. A survey of sensory and perceptual processes with emphasis on the visual system.

422—**Psychology of Learning.** 3-4-0-**F,S**. Prerequisite: PSY 320. A study of the basic problems, theories, concepts, and research in the areas of human and animal learning.

424—**Animal Psychology.** 3-4-0-**X**. Prerequisite: PSY 320. An introduction to the study of animal behavior with emphasis on the comparison of psychological processes along the phylogenetic scale.

426—**Physiological Psychology.** 3-4-0-**F,W,Su**. Prerequisite: PSY 110. Relationships between physiological functions, especially those of the nervous system, and emotional behavior, motivation and learning.

432—**Introduction to Behavior Modification.** 3-4-0-**X**. Prerequisites: Good background and permission of instructor. Principles and techniques of behavior modification applied to normal and deviant behavior across environmental settings.

436—**Abnormal Psychology.** 3-4-0-**Q**. Prerequisites: Good background in psychology and permission of the instructor. Study of the major psychoneuroses, and mental deficiency; field trips, and demonstration clinics.

450—**Social Psychology.** 3-4-0-**W**. Prerequisite: PSY 110. Study of social influences on personality development and perceptual-cognitive processes and social motivation.

451—**Industrial Psychology.** 3-4-0-**F,S**. Prerequisite: PSY 110. (PSY 360 recommended.) Applications of psychological principles and methods to problems of industry.

455—**Psychology of Personality.** 3-4-0-**F,W,Su**. Prerequisites: PSY 110 and permission of the instructor. Different theoretical approaches to the development of the mature personality.

462—**Psychological Measurement.** 3-4-0-**W,Su**. Prerequisites: PSY 110 and 360. Theory, problems and techniques of psychological measurement. Group tests of ability, aptitude, interests, and personality are emphasized.

492—**Special Problems in Psychology.** 1-6 hrs. arr. Prerequisites: PSY 320 and consent of instructor.

495—**Field Experience in Psychology.** 1-3 hrs. arr. Prerequisites: Twenty-four hours of psychology and permission of the instructor. Opportunity for the student to observe and participate under supervision in the activities of one or several agencies providing psychological services.

498—**Senior Thesis.** 3 hrs. arr. Prerequisite: Permission of department chairman and instructor.

PUBLIC ADDRESS (PA—216)

111—**Oral Communication.** 3-0-0-**Q**.

112—**Argumentation and Debate.** 3-0-0-**F,** alternate years.

210—**Voice and Diction.** 3-0-0-**Q**.

310—**Forensics.** 1-0-0-**Q**. May be repeated for three hours credit.

311—**Persuasion.** 3-0-0-**W**.

315—**Speech Composition.** 3-0-0-**W**. Prerequisite: Consent of instructor.

324—**Phonemics.** 3-0-0-**S**, alternate years. Prerequisite: PA 210 or SHS 201.

330—**Discussion and Group Leadership.** 3-0-0-**Q**.

400—**Symbolic Function in Persuasion.** 3-0-0-**S**, alternate years. Prerequisite: Consent of instructor.

403—**Political Campaign Rhetoric.** 3-0-0-**F**. (of election years).

492—**Special Problems.** 1-3 hours. arr. **X**.

RADIO-TELEVISION-FILM (RTF—220)

270—**Film History and Criticism.** 3-4-0-**Q**.

271—**Introduction to Film Production.** 3-4-0-**Q**.

302—**Broadcast Journalism.** 3-4-0-**X**. Prerequisite: JOU 102.

310—**Radio Laboratory.** 1-1-4-**X**. May be repeated for three hours total.

311—**Radio Production.** 3-4-0-**W**.

320—**Announcing.** 2-3-0-**S**. Prerequisite: PA 210.

330—**Broadcast Advertising.** 3-4-0-**W**.

370—**Contemporary Cinema.** 3-2-2-**X,F**.

371—**Basic Cinematography.** 3-4-0-**W,S**.

375—**Film Editing.** 3-4-0-**F**. Prerequisites: COM 250 or RTF 371 and consent of instructor.

377—**Film Production Workshop.** 2-2-2-**S**.

416—**Radio Station Management.** 3-4-0-**F**. Prerequisite: 12 hours of RTF courses.

417—**Radio Production Workshop.** 2-2-0-**W**.

425—**Audience Analysis.** 3-4-0-**S**.

440—**Television Production.** 3-4-0-**X**.

447—**Television Production Workshop.** 2-2-0-**S**.

460—**Issues in Broadcasting.** 3-4-0-**F**. Prerequisite: Consent of instructor.

471—**Advanced Cinematography.** 3-2-4-**W**. Prerequisites: RTF 371 and consent of instructor.

472—**Writing for Television and Film.** 3-4-0-**W**.

477—**Advanced Film Production Workshop.** 2-2-2-**S**. Prerequisite: Consent of instructor.

492—**Special Problems in Radio-Television-Film.** 1-3 hrs. arr. **X**. Prerequisite: Consent of instructor.

RECREATION (REC—735)

SERVICE ACTIVITY COURSES (NON-CAREER)—The following are activity courses offered on a pass-fail basis only. These are not to be credited for major requirements.

183—**Pioneering.** 1-1-0-**F,S**.

184—**Canoeing.** 1-1-0-**F,S**.

185—**Family Camping and Campcraft.** 1-1-0-**F,S**.

188—**Hobbycraft.** 1-1-0-**W**.

189—**Naturecraft.** 1-1-0-**W**.

CAREER COURSES—The following are career courses offered to meet requirements for a major in recreation leading to a Bachelor of Science degree.

200—**Man's Search for Leisure.** 3-4-0-**F,S.**

203—**The Literature of Recreation.** 3-4-0-**F,W.**

322—**Recreation Programming.** 3-4-0-**W,S.**

323—**Recreation Leadership.** 3-4-0-**F.**

341—**Camper Counseling, Administration, and Operation.** 3-4-0-**S.**

342—**Outdoor Recreation.** 3-4-0-**S.**

402—**Undergraduate Seminar in Recreation.** 1-1-0-**W.**

403—**Field Work in Recreation.** 9-0-0-**Q.** Each recreation major is assigned to a recreation or recreation-related agency and must work for a full quarter under the direct supervision of a professional recreator.

413—**Organization and Administration of Public Recreation.** 3-4-0-**F,W.**

415—**Business Procedures for Parks and Recreation.** 3-4-0-**F.**

417—**Park Management and Operation.** 3-4-0-**F.**

422—**Youth Service Programs and Organization.** 3-4-0-**F.**

424—**Community Center and Playground Programs and Operation.** 3-4-0-**W.**

426—**Community-School Recreation.** 3-4-0-**S.**

432—**Environmental Aspects of Recreation.** 3-4-0-**W.**

434—**Park Development and Design.** 3-4-0-**S.**

436—**Recreation Planning.** 3-4-0-**W.**

441—**Resources Management and Policy.** 3-4-0-**W.**

443—**Outdoor Education.** 3-4-0-**S.**

447—**Interpretation of Cultural and Natural Resources.** 3-4-0-**S.**

451—**Therapeutic Recreation Programming.** 3-4-0-**W.**

452—**Gerontology and Recreation for Later Years.** 3-4-0-**F,S.**

RELIGION (REL—288)

ANT 412—**Mythology and Folklore**—may also be offered for credit as a religion course by students minoring in religion, or philosophy and religion, or anthropology and religion.

331—**Introduction to Religion.** 3-4-0-**Q.** The study of religion as an aspect of human culture with attention to both Christian and non-Christian religions.

333—**History of the Old Testament.** 3-4-0-**F.** A study of Jewish history and thought as presented in the writings of the Intertestamental Era.

334—**The Life of Jesus.** 3-4-0-**Q.** A study of the life of Jesus as presented in the first three gospels.

431—**Religion in the Rise of American Culture.** 3-4-0-**F.** A study of the origin and development of the major religious groups in the United States from colonial times to the present.

432—**History of the Christian Church I.** 3-4-0-**W.** A study of the history of the church from the apostolic period through the Renaissance.

433—**History of the Christian Church II.** 3-4-0-**S.** A study of the history of the church from the Reformation to the modern era.

434—**Primitive Religion.** 3-4-0-**S.** Beliefs and ritual in primitive

society. Relationship between magic and early religion. Animism, animatism, ghost-worship, and cults of death.

435—**Religious Literature and Thought of the Near East.** 3-4-0-**W**. A survey of Judaism, Islam, and Zoroastrianism.

437—**Religious Literature and Thought of the Far East.** 3-4-0-**S**. A survey of Hinduism, Buddhism, Taoism, Confucianism, and Shintoism.

492—**Special Problems.** 1-3 hrs. arr. **X**.

SCIENCE (SCI—394)

426—**Advanced Geophysics.** 3-3-1-**S**. Prerequisites: PHY 103 or 203. Corequisite: MAT 277. A development of the physical principles governing gravity, electricity and magnetism, and seismic wave propogation.

SCIENCE EDUCATION (SCE—380)

432—**Science for Elementary Teachers.** 3-4-0-**Q**. Prerequisites: FS 131, 132, 133, 134 or 12 semester hours of science. Designed to provide experience in presenting scientific principles to the elementary school child through the use of a variety of materials and instructional methods.

441—**Workshop on Methods of Teaching the Metric System.** 3-4-0-**X**. Lectures and exercises in measurements using the International System of Units. Not to be used for a degree in science education.

453—**Earth and Environmental Sciences for Intermediate School Teachers.** 3-4-0-**X**. Prerequisite: Earth and environmental science background or permission of the instructor. A course designed to familiarize teachers with the materials, methods, and techniques developed by national curriculum projects.

454—**Biological Sciences for Intermediate School Teachers.** 3-4-0-**F**. An examination of subject matter, techniques, and methods for teaching the life sciences in a locally structured, student-oriented classroom.

455—**Physical Science for Intermediate School Teachers.** 3-4-0-**W**. An examination of the subject matter, techniques, and methods for teaching the various modern physical sciences.

470—**BSCS Biology for Secondary Teachers.** 3-4-0-**S**. Prerequisite: Permission of instructor. An examination of the techniques, and methods for teaching biology in secondary schools as proposed by the Biological Sciences Curriculum Study.

471—**CHEM Chemistry for Secondary Teachers.** 3-4-0-**S**. Prerequisite: Permission of instructor. Designed to familiarize teachers with the materials, methods, and techniques of teaching chemistry developed by the CHEM Study Committee.

472—**Physics for Secondary Teachers.** 3-4-0-**X**. Prerequisite: Permission of instructor. A course to familiarize physics teachers with content, methods, materials, and techniques of teaching physics.

492—**Special Problems.** 1-3 hrs. arr. **X**. A problem study to be approved by the department chairman.

SECONDARY EDUCATION (CIS—120)

310—**Junior-Senior High School Reading Methods.** 3-4-0-**Q**. A course designed to familiarize secondary teachers with reading skills, methods, and materials. Emphasis is placed on content skills in subject matter areas.

313—**Principles of Teaching in High School.** 3-4-0-**Q**. Offered concurrently with student teaching, this general methods course emphasizes the goals of secondary education, motivation and direction of learning, and school organization.

451—**Methods in Business Education.** 3-4-0-**F,Su**. A study of business education trends and aims, teaching procedures, tests and measurements, special helps, and teaching materials.

452—**Methods in Art.** 3-4-0-**W**. Stresses the aims, objectives, and methods of art education in the elementary and secondary schools.

453—**Methods in Industrial Arts.** 3-4-0-**W,Su**. A course pertaining to the methods and materials in the teaching of industrial arts.

454—**Methods in English—Secondary.** 3-4-0-**Q**. A course concerning methods of teaching English in the junior and senior high schools.

455—**Methods in Foreign Languages.** 3-4-0-**W,Su**. A course in methods of teaching French, Spanish, and German in the secondary schools.

456—**Methods in Teaching Science—Secondary.** 3-4-0-**F,W,S**. A course designed to familiarize teachers with current trends, methods, and techniques of teaching science to secondary school students.

457—**Methods in Mathematics—Secondary.** 3-4-0-**F,S**. A course designed to give the student a knowledge of the objectives, curriculum problems, and organization and methods of teaching secondary school mathematics.

458—**Methods in Social Studies—Secondary.** 3-4-0-**Q**. A study of the principal methods of teaching, application of psychological principles to teaching, and methods of selecting content and materials.

459—**Methods in Speech.** 3-4-0-**F**. A general orientation to the teaching of speech, followed by individualized unit work in the special fields of speech.

462—**Methods and Principles in Health, Physical Education, and Recreation.** 3-4-0-**Q**. Emphasizes materials and techniques of teaching health, physical education, and recreation in grades 1-12 of public schools.

465—**Methods in Journalism.** 3-4-0-**W**. A course designed to prepare the student for the teaching of journalism on the secondary school level.

470—**Curriculum of the Secondary Schools.** 2-3-0-**X**. A course which examines the present day structure and nature of the secondary school curriculum.

472—**Student Activities in Secondary Schools.** 1-2-0-**X**. Consideration is given to the general nature, activities, and organization of the student extra-curricular program.

481-494—**Student Teaching in High School.** 9-0-0-**F,W,S**. The individual courses in pre-service student teaching are as follows: 481—Business Education: 482—Art Education; 483—Industrial Arts; 484—English; 485—Foreign Languages; 486—Sciences; 487—Mathematics; 488—Social Studies; 489—Speech; 491—Health, Physical Education, Recreation; 492—Library Science; 493—Music Education; and 494—Journalism.

495—**Seminar in Secondary Student Teaching.** 6-0-0-**Su**. Prerequisite: Permission of instructor. Designed to meet the student teaching requirement for noncertified experienced teachers, this course deals with classroom management, programs of instruction, and student role in the educational environment.

496—**Internship in Secondary Education.** 9-0-0-**X**. Prerequisite:

permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

SOCIOLOGY (SOC—292)

Note: All 400 level courses are open only to students of junior standing or higher.

101—**Introduction to Sociology.** 3-4-0-**Q**. Prerequisite to all other sociology courses. A course designed to give the student a general overview of the perspective, concepts, and methodology of sociology.

230—**Introduction to Social Work.** 3-4-0-**F,W,S**. An introduction to the purpose, methods, and philosophy of contemporary social work. Open to persons in other disciplines.

240—**Social Problems.** 3-4-0-**F,S**. A study of representative contemporary problems, with emphasis on causes which arise from cultural patterns and social change.

310—**Urban Sociology.** 3-4-0-**Q**. An analysis of the nature of urban society and the factors shaping it, including the influence of urban ecology and ecological processes.

311—**Rural Sociology.** 3-4-0-**F,S**. A study of the structure, institutions, and social processes of rural society; and of the effect of urbanization on rural society.

314—**The Family.** 3-4-0-**F,S**. An analysis of the structure and functions of the family as an institution and the factors making for family change.

330—**Methods of Social Case Work.** 3-4-0-**F,W,S**. Prerequisite: SOC 230. A study of the principles of social case work.

341—**Criminology.** 3-4-0-**W,Su**. A study of causes, treatment, and prevention of crime. Deals with criminology, penology, and criminal legislation.

350—**Sociology of Minorities.** 3-4-0-**F,S**. An analysis of socio-cultural factors in minority-majority relationships and their social and psychic implications.

420—**Industrial Sociology.** 3-4-0-**S**. An advanced sociological study of industrial and work units as social systems in their institutional setting.

424—**Gerontology.** 3-4-0-**W**. Sociology of aging.

426—**Sociology of Education.** 3-4-0-**Su**. A comprehensive study of the educational institution, its relationship to the community and society.

431—**Community and Group Social Work.** 3-4-0-**W,Su**. A study of techniques and methods of carrying out social work practice in group and community settings.

433—**Field Work Practicum.** 3-9 hrs. arr. **Q**. Designed to provide the student with practical field experiences in a career-oriented area.

440—**Social Control and Collective Behavior.** 3-4-0-**W**. A study of principles and techniques by which conformity to the laws and other norms of social units is produced and maintained.

444—**Juvenile Delinquency.** 3-4-0-**F,S**. A study of causes and the nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs.

450—**Social Foundations of Personality.** 3-4-0-**W,Su**. A treatment of the role of the social group and the cultural heritage in the development and functioning of the human personality.

460—**Methods of Social Research.** 3-4-0-**F,S.** A survey of elementary research techniques used in empirical social investigations.

461—**Population.** 3-4-0-**W.** Prerequisite: SOC 460. An introduction to demography, analyzing significant changes in population composition.

471—**Social Institutions.** 3-4-0-**S.** A detailed study of major American social institutions, their functions, interrelationships, and significant trends.

480—**Advanced General Sociology.** 3-4-0-**F,S.** An advanced course in general sociology giving expanded treatment to the basic sociological concepts and subject-matter areas.

481—**History of Social Thought.** 3-4-0-**F.** An examination of early social thought, tracing the development of western thought and ideas from Hammurabi to Comte.

482—**Sociological Theory.** 3-4-0-**W,Su.** A survey of the growth and development of sociological theory from Comte to the present.

492—**Special Problems.** 1-3 hrs. arr. **X.** To be used to pursue specialized interests for which courses are not offered.

SPECIAL EDUCATION (SPE—190)

200—**Practicum in Special Education I.** 1-1-2-**Q.** Initial experience with exceptional children. This introductory course should be taken as soon as possible for majors.

201—**Practicum in Special Education II.** 1-1-2-**Q.** Observational experience with exceptional children.

202—**Practicum in Special Education III.** 1-1-2-**Q.** Tutorial and aide experience with exceptional children.

300—**Problems in Special Education.** 3-4-0-**Q.** Organization and administration at state and local levels of education for the exceptional child.

310—**Student Teaching: Observation.** 1-1-2-**Q.** First clinical and student teaching experience for speech correction majors.

311—**Student Teaching: Screening.** 1-1-2-**Q.** Clinical work in assessing children in speech and audiology.

312—**Student Teaching: Clinical Practice.** 1-7 hrs. arr. **Q.**

400—**The Psychology and Education of the Exceptional Child.** 3-4-0-**Q.** Considers the psychological and educational needs of children of a typical group.

401—**Curriculum Adaptation for Exceptional Youth.** 3-4-0-**Q.** Considers adjunctive programs commonly utilized in education for exceptional child.

402—**Methods and Material in Teaching Exceptional Children.** 3-4-0-**Q.** A study of methods and materials useful in meeting the needs of the exceptional child.

403—**Educational Evaluation of Exceptional Children.** 3-4-0-**Q.** Basic principles underlying measurement and evaluation in education with emphasis on interpretation as it relates to exceptional children.

410—**Methods in Speech and Hearing.** 3-4-0-**W,Su.** Prerequisites: 201, 202, 211, 221, 411, and SHS majors. A course designed to acquaint the speech and hearing major with clinical conditions as found in public schools.

411—**Speech and Hearing Problems for the Classroom Teacher.** 3-4-0-**W,Su.** A course designed to acquaint the teacher with speech and hearing problems commonly found in the classroom.

420—**Physiology and Hygiene of the Eye.** 3-4-0-**W.** Identification, function, and care of the eye as it relates to the visually handicapped.

421—**Methods and Materials in Teaching Visually Handicapped.** 3-4-0-**F.** A study of practices commonly used in education programs including Braille, space orientation, special materials, and organization.

422—**Braille.** 3-4-0-**W.**

423—**Teaching of Braille.** 3-4-0-**S.** Prerequisite: SPE 422 or equivalent.

424—**Special Adjustments of the Visually Handicapped.** 3-4-0-**W.** Introduction to mobility training and spatial orientation.

425—**Psychology and Education of the Visually Handicapped.** 3-4-0-**F.** A study of social-emotional and cognitive learning factors of the visually handicapped.

428—**Psychology and Education of the Physically Handicapped.** 3-4-0-**W.** A study of major handicapping conditions, adaptation, social emotional, and intellectual consideration.

429—**Curriculum for the Physically Handicapped.** 3-1-3-**S.** A study of education programs for the physically handicapped.

430—**Learning Disabilities.** 3-4-0-**Q.** Prerequisite: SPE 400 or permission. A study of social, emotional, physical, and learning characteristics of extreme learning disabilities.

431—**Curricula for Specific Learning Disabilities.** 3-2-2-**Q.** Prerequisite SPE 402 or permission. A study of specific learning experiences in educating the learning disabled.

432—**Methods and Materials for Teaching Learning Disabilities.** 3-4-0-**Q.** Prerequisite: SPE 430 or permission. A study of methods and materials most useful in teaching the perceptually handicapped.

440—**Education of the Mentally Retarded.** 3-4-0-**Q.** Prerequisite; SPE 400 or permission. A study of social, emotional, physical, and intellectual characteristics of the mentally retarded.

441—**Curricula for the Mentally Retarded.** 3-2-2-**Q.** Prerequisite: SPE 420 or permission. A study of specific learning experiences in educating the mentally retarded.

442—**Methods and Materials for Teaching the Mentally Retarded.** 3-4-0-**Q.** Prerequisite: SPE 440 or permission. A study of methods and materials most useful in teaching the mentally handicapped.

480—**Student Teaching of the Mentally Retarded.** 9-2-12-**Q.**

482—**Student Teaching the Visually Handicapped.** 9-2-12-**Q.**

483—**Student Teaching the Physically Handicapped.** 9-2-12-**Q.**

485—**Student Teaching in Learning Disabilities.** 9-2-12-**Q.**

489—**Seminar in Special Education of Student Teaching.** 1-6 hrs. arr. **X.** In-service student teaching designed for experienced teachers who have demonstrated their interest and ability as classroom teachers.

490—**Workshop in Special Education.** 1-3 hrs. arr. **X.**

491—**Special Problems in Special Education.** 1-3 hrs. arr. **Q.** A consideration of special interest areas in the field of exceptional children. Must be arranged with the Department of Special Education.

SPEECH AND HEARING SCIENCES (SHS—296)

201—**Introduction to Phonetics.** 3-4-0-**F,W.**

202—**Fundamentals of Speech and Hearing Science.** 3-4-0-**F,W.**

211—**Introduction to Communication Disorders.** 3-4-0-**W,S.**

221—**Introduction to Audiology.** 3-4-0-**W,S.**

401—**Language Development.** 3-4-0-**F,W.**

402—**Anatomy and Physiology of the Hearing Mechanism.** 3-4-0-**F.**

403—**Anatomy and Physiology of the Speech Mechanism.** 3-4-0-**W.**

411—**Articulation Disorders.** 3-4-0-**F,S.** Prerequisites: SHS 201, 211.

412—**Diagnostic Procedures in Speech Pathology I.** 3-4-0-**F,W.** Prerequisites: SHS 201, 211.

413—**Voice Disorders.** 3-4-0-**W,S.** Prerequisites: SHS 211, 403.

414—**Stuttering and Related Problems.** 3-4-0-**F,S.** Prerequisites: SHS 211.

415—**Speech and Language Disorders of the Cerebral Palsied.** 3-4-0-**X.** Prerequisites: SHS 211, 403.

416—**Adult Aphasia and Related Problems.** 3-4-0-**S.** Prerequisites: SHS 211, 403.

417—**Speech and Language Disorders Related to Cleft Palate.** 3-4-0-**Su.** Prerequisites: SHS 211, 403.

421—**Aural Rehabilitation.** 3-4-0-**F,W.** Prerequisite: SHS 221.

431—**Language Disorders I: Assessment of Children with Language Disorders.** 3-4-0-**F,W.** Prerequisite: SHS 401.

432—**Language Disorders II: Habilitation of the Aphasic Child.** 3-4-0-**W,S.** Prerequisites: SHS 201, 401, 431.

433—**Language for the Deaf and Other Language-Impaired Children I.** 3-4-0-**F,S.**

434—**Language for the Deaf and Other Language-Impaired Children II.** 3-4-0-**W.** Prerequisite: SHS 201.

435—**Speech for the Hard-of-Hearing and Deaf.** 3-4-0-**S.** Prerequisite: SHS 201.

436—**Problems in Reading and Related Subjects for the Hard-of-Hearing and Deaf.** 3-4-0-**Su.** Prerequisite: SHS 433 or consent of instructor.

437—**History, Education, and Guidance for the Deaf.** 2-3-0-**F.**

438—**Problems in Academic Subjects for the Hard-of-Hearing and Deaf.** 3-4-0-**X.**

439—**Preschool Hard-of-Hearing and Deaf.** 3-4-0-**F,S.** Prerequisite: SHS 221. Practicum required.

492—**Special Problems.** 1-3 hrs. arr. **Q.**

TECHNOLOGY (TEC-398)

300—**Manufacturing Processes I.** 3-2-4-**X.** Study of methodologies of combining principles to create a manufacturing process. Principles to be considered include: mixing, agglomerating, physical reduction, physical separation, coating, impregnating, heating, cooling, fastening (mechanical-chemical-thermal), forming (pressing-rolling-molding-ex-

truding-testing), concentration (evaporation-drying-sublimation). The various equipments and methods will be studied, considering potentials of application.

304—**Mechanical Equipment and Electrical Systems of Buildings I.** 3-4-0-**X.** Design, installation, and performance of mechanical and electrical equipment for residential and commercial buildings.

305—**Mechanical Equipment and Electrical Systems of Buildings II.** 3-4-0-**X.** Prerequisite: TEC 304. Continuation of TEC 304.

306—**Electrical Controls and Power Circuits.** 3-2-4-**X.** Power requirements in single and multi-phase circuits: AC and DC motors, controls, relays, etc.

307—**Illumination.** 3-4-0-**X.** Design and placement in residential and commercial structures.

308—**Industrial Instrumentation.** 3-4-0-**X.** Modern methods of measurement and control of process variables; temperature, pressure, liquid level, flow, etc.

313—**Mechanical Production Technology.** 3-4-0-**X.** Study of jigs and fixtures, mass production techniques, product design, etc.

320—**Environmental Controls.** 3-2-4-**X.** Theory and techniques pertaining to environmental control within closed spaces. Variables considered are heat, work energy, fluid flow, and heat transfer.

321—**Tool and Fixture Design.** 3-2-4-**X.** Emphasizes design and fabrication of specialized production tools, jigs, gages, and fixtures with emphasis on dimensional control as related to production machinery.

322—**Mechanical Power Transmissions.** 3-2-4-**X.** Design and selection of mechanical elements used in power transmission of industrial machines; topics include shafts, pulleys, gear trains, bearings, clutches, and brakes.

323—**Fluid Mechanics.** 3-2-4-**X.** Fluid statics and application of fluid mechanics principles to analysis and design of fluid systems; includes friction factor, boundary layer theory, laminar flow concepts.

351—**Architectural Design I.** 3-2-4-**X.** Analysis and solutions to problems in design of residential and/or vacation houses or the remodeling of same.

352—**Architectural Design II.** 3-2-4-**X.** Prerequisite: TEC 351. Design problems related to apartment houses, fraternity and sorority houses.

353—**Architectural Design III.** 3-2-4-**X.** Prerequisite: TEC 352. Design problems related to motels and restaurants.

361—**Analytical Mechanics I.** 3-2-4-**X.** Statics and mechanics of materials, friction, inertia, vectors, etc., as related to machines and mechanisms.

362—**Analytical Mechanics II.** 3-2-4-**X.** Prerequisite: TEC 361. Continuation of 361. Kinetics, eccentric loadings, energy impulse, periodic motions, etc.

363—**Plastics Mold and Die Design.** 3-4-0-**X.** Fundamentals of mold design for injection, compression, transfer, thermoforming, and extrussion processes.

364—**Plastics Mold Design and Construction.** 3-2-4-**X.** Prerequisites: TEC 363, IVE 342, and instructor's permission. Actual design and construction of molds to be used on production machines.

365—**Plastics Technology IV.** 3-4-0-**X.** Prerequisite: PSC 362. Theoretical and practical study of plastics process technology.

367—**Plastics Industry Organization.** 3-4-0-**X.** Analysis of product research, design, development, production, and marketing.

371—**Building Construction I.** 3-4-0-**X.** Prerequisite: Permission of instructor. Study and examination of materials and methods of construction.

372—**Building Construction II.** 3-4-0-**X.** Prerequisite: Permission of instructor. Continuation of TEC 371.

373—**Building Construction III.** 3-4-0-**X.** Prerequisite: Permission of instructor. Continuation of TEC 372.

375—**Structures I.** 3-4-0-**X.** Prerequisites: PHY 101, MAT 103. Study of force systems and action on rigid bodies at rest; center of gravity, moments of gravity, moments of inertia, etc., as applied to architecture and engineering.

376—**Structures II.** 3-4-0-**X.** Prerequisites: PHY 101, MAT 103. Analysis of fundamental structural principles and application of mathematics to structural theory.

377—**Structures III.** 3-4-0-**X.** Prerequisite: TEC 376. Study of shear and bending moments, torsion, deflection, design of beams, columns, trusses, struts, etc.

378—**Estimating I.** 3-4-0-**X.** Principles and theories of estimating construction costs, some factors of which include material costs, labor, landscaping, and insurance costs.

392—**Architectural Landscaping.** 3-4-0-**X.** A study of elements and principles as related to site planning and outside environment.

393—**Architectural Rendering.** 3-4-0-**X.** The visual expression of architectural principles and structures. Will include perspectives, shades, shadows, colors, etc.

394—**Office Practice and Specifications.** 3-4-0-**X.** The study of client and contractor relationship, office management and legal requirements, contracts, bids, and specifications.

395—**Surveying.** 3-4-0-**X.**

405—**Production Technology.** 3-2-4-**X.** Plant layout, materials handling, production evaluation, set-up and maintenance procedures, quality assurance.

451—**Architectural Design IV.** 3-2-4-**X.** Prerequisite: TEC 353. Design problems related to office buildings and stores.

452—**Architectural Design V.** 3-2-4-**X.** Prerequisite: TEC 451. Design problems related to churches and religious education buildings.

453—**Architectural Design VI.** 3-2-4-**X.** Prerequisite: TEC 452. Design problems related to doctor's offices, medical clinics, and hospitals.

454—**Architectural Design VII.** 3-2-4-**X.** Prerequisite: TEC 453. Design problems related to school buildings; includes administrative offices, academic classrooms, laboratories, and shops.

455—**Architectural Design VIII.** 3-2-4-**X.** Prerequisite: TEC 454. Design problems related to shopping centers.

456—**Architectural Design IX.** 3-2-4-**X.** Prerequisite: TEC 455. Design problems related to campus, urban, and city planning.

THEATRE ARTS (THE-685)

100—**University Theatre.** 1-1-0-**F.** Participation in the major theatrical productions of the department.

101—**University Theatre.** 1-1-0-**W.** A continuation of THE 100.

102—**University Theatre.** 1-1-0-**S.** A continuation of THE 101.

103—**Introduction to Theatre.** 3-4-0-**F.**

111—**Fundamentals of Oral Interpretation.** 3-4-0-**Q.** General educational approach to the art as a means of communicating literary content.

120—**Fundamentals of Acting.** 3-4-0-**Q.**

125—**Movement for the Actor.** 2-2-2-**F,W.**

140—**Vocal Techniques for the Actor-Singer.** 2-2-0-**F,S.** May be taken three times.

150—**Modern Dance Techniques and Composition.** 2-2-2-**F.** Discussion and practices of movement patterns, improvisation, and studies in modern dance.

151—**Modern Dance Techniques and Composition.** 2-2-2-**W.** A continuation of THE 150.

152—**Modern Dance Techniques and Composition.** 2-2-2-**S.** A continuation of THE 151.

155—**Dance Repertory.** 1-1-0-**Q.** May be repeated for a total of three hours.

200—**Stagecraft.** 3-3-1-**F,W,S.** Both study and practical application of the techniques of building and painting stage scenery and properties.

204—**Stage Makeup.** 2-2-2-**F,S.**

220—**University Theatre.** 1-1-0-**F.** A continuation of THE 102.

221—**University Theatre.** 1-1-0-**W.** A continuation of THE 220.

222—**University Theatre.** 1-1-0-**S.** A continuation of THE 221.

240—**Mime and Pantomime.** 2-2-2-**S.**

250—**Ballet Techniques and Composition.** 2-2-2-**F.** Discussion and practice of movement patterns, improvisation, and studies in ballet.

251—**Ballet Techniques and Composition.** 2-2-2-**W.** A continuation of THE 250.

252—**Ballet Techniques and Composition.** 2-2-2-**S.** A continuation of THE 250.

253—**Dance Improvisation.** 2-2-2-**W.**

254—**Music Analysis and Accompaniment for Dance.** 2-3-1-**X.**

255—**Dance Repertory I.** 1-1-0-**Q.** May be repeated for a total of three hours.

258—**Modern Dance Technique and Survey.** 2-2-0-**Q.** May be repeated for a total of six hours.

259—**Intermediate Dance Composition.** 2-2-2-**W.** Exploration of the elements of dance applied to dance choreography.

301—**Reader's Theatre.** 3-4-0-**S.** Prerequisite: THE 111. Theories and problems of presenting prose, poetry, and drama in group performances.

306—**Scene Design.** 3-4-0-**W.** Prerequisite: THE 200 or consent of instructor. Elements of stage design. Play analysis in terms of visuali-

zation and style, and the mechanics of developing an effective stage setting.

320—**Directing.** 3-4-0-**F.** Prerequisites: THE 120 and 200.

330—**University Theatre.** 1-1-0-**F.** A continuation of THE 222.

331—**University Theatre.** 1-1-0-**W.** A continuation of THE 330.

332—**University Theatre.** 1-1-0-**S.** A continuation of THE 331.

341—**Opera Workshop.** 1-1-0-**F.** A complete stage production of scenes and major productions from the Music Theatre repertoire for public performance.

342—**Opera Workshop.** 1-1-0-**W.** A continuation of THE 341.

343—**Opera Workshop.** 1-1-0-**S.** A continuation of THE 342.

355—**Dance Repertory.** 1-1-0-**Q.** May be repeated for a total of three hours.

356—**Dance History I.** 3-4-0-**W,** 1975.

357—**Dance History II.** 3-4-0-**S,** 1975.

358—**Modern Dance Technique and Theory.** 2-2-2-**Q.** May be repeated for six hours.

359—**Advanced Composition.** 2-2-0-**W.**

370—**Methods of Teaching Dance.** 3-3-1-**F,** 1975. A study of the principles and objectives of teaching dance. Includes observation and supervised teaching experiences.

401—**History and Design of Costumes.** 3-4-0-**S.**

412—**Stage Lighting.** 3-4-0-**F.** Theory and application of general and special lighting, color, instrumentation, and control.

416—**Playwriting.** 3-4-0-**S.** Prerequisite: Consent of instructor.

417—**Advanced Acting.** 3-4-0-**W.** Emphasis on presentational styles.

420—**Advanced Directing.** 3-4-0-**W.** Prerequisite: THE 320.

427—**Theatre History I.** 3-4-0-**F.** Study of the development of the theatre from early Egypt.

428—**Theatre History II.** 3-4-0-**W.** A continuation of THE 427.

429—**Theatre History III.** 3-4-0-**S.** A continuation of THE 428.

430—**Summer Theatre I.** 3-3-0-**Su.** Concentrated applied theatre.

431—**Summer Theatre II.** 3-3-0-**Su.** A continuation of THE 430.

435—**Advanced Scene Design.** 3-4-0-**S,**1975. Prerequisite: THE 306 or consent of instructor. The techniques of scene design as applied to non-realistic stage settings.

445—**Advanced Stage Lighting.** 3-4-0-**S,**1976.

446—**Experimental Theatre.** 3-4-0-**F.** A study of new forms in theatre.

447—**Opera Workshop.** 1-1-0-**F.** A continuation of THE 343.

448—**Opera Workshop.** 1-1-0-**W.** A continuation of THE 447.

449—**Opera Workshop.** 1-1-0-**S.** A continuation of THE 448.

450—**University Theatre.** 1-1-0-**F.** A continuation of THE 332.

451—**University Theatre.** 1-1-0-**W.** A continuation of THE 450.

452—**University Theatre.** 1-1-0-**S.** A continuation of THE 451.

455—**Dance Repertory.** 1-1-0-**Q.** May be repeated for a total of three hours.

458—**Modern Dance Technique and Analysis.** 2-2-2-**Q.** May be repeated for a total of six hours.

459—**Musical Theatre Production.** 3-4-0-**F,S,Su.** Prerequisite: One hour of Opera Workshop. Study of the different forms and styles of Music Theatre with special attention to the various elements of productions.

465—**Music Resources for Dance.** 2-2-2-**X.** Studying and gathering of music resources for dance.

466—**Dance Lecture and Demonstration.** 3-4-0-**S,**1976. Techniques of preparing dance lecture-demonstrations and tours.

467—**Dance Curriculum and Organization.** 3-4-0-**F.** Study of dance curriculums and administrative problems.

468—**Musical Theatre Dance.** 2-2-2-**F,W,S.**

470—**Senior Dance Production.** 3-4-0-**S.**

480—**Directing Children's Theatre.** 3-4-0-**X.** The techniques of directing, organizing, and administering a children's theatre program.

490—**Theatre Workshop.** 3-4-0-**Su.** Designed for the non-theatre major (i.e., English, speech, music, etc.) who is responsible for directing school or community drama activities.

492—**Problems in Theatre I.** 2-2-0-**X.** Prerequisite: Consent of instructor.

492—**Problems in Theatre II.** 2-2-0-**X.** Prerequisite: Consent of instructor.

THE FACULTY

FACULTY EMERITI

MISS MABEL MAE BALDWIN, Associate Professor Emerita of Business Education

DR. JAMES EDWARD BAXTER, Associate Professor Emeritus of Education

MRS. MARY POE BAYLIS, Associate Professor Emerita of Music

MISS HAZEL MARIE BLACK, Assistant Professor Emerita of Education

DR. ZED HOUSTON BURNS, Professor Emeritus of Psychology

MISS PEARL CAMPBELL, Associate Professor Emerita of Home Economics

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